Keysight
Vector Network Analyzer
Calibration Kit Standards Definitions

KEYSIGHT TECHNOLOGIES

Contents

85031B APC 7 Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN	APC 7 open	APC 7	NONE	92.85	0	7.2	4.3	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT	APC 7 short	APC 7	NONE	0	0	0	0	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND	APC 7 broadband load	APC 7	NONE	FIXED	OFF	OFF	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	THRU	Insertable thru standard	APC 7	NONE	APC 7	NONE	0	999000	0.00E+00	0.7	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 7	APC 7	NONE	COAX	0	999000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2							
S11B	3							
S11C	1							
S22A	2							
S22B	3							
S22C	1							
FWD MATCH	4							
FWD TRAN	4							
REV MATCH	4							
REV TRAN	4							
ISOLATION	1							

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1					

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85032B/E Type N (50) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	Type N (50) male open	Type N (50)	MALE	62.14	-143.07	82.92	0.76	0	999000	1.74E-11	0.7	50
5	OPEN -F-	Type N (50) female open	Type N (50)	FEMALE	119.09	-36.955	26.258	5.5136	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT -M-	Type N (50) male short	Type N (50)	MALE	0	0	0	0	0	999000	1.78E-11	2.1002	50.209
6	SHORT -F-	Type N (50) female short	Type N (50)	FEMALE	0	0	0	0	0	999000	9.30E-14	0.7	49.992

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND LOAD -M-	Type N (50) male broadband load	Type N (50)	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0.7	50
4	BROADBAND LOAD -F-	Type N (50) female broadband load	Type N (50)	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	THRU	Insertable thru standard	Type N (50)	FEMALE	Type N (50)	MALE	0	999000	0.00E+00	0.7	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N (50)	Type N (50) male	MALE	COAX	0	999000	0
Type N (50)	Type N (50) female	FEMALE	COAX	0	999000	0

85032B/E Type N (50) Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	5						
S11B	3	6						
S11C	1	4						
S22A	2	5						
S22B	3	6						
S22C	1	4						
FWD MATCH	7							
FWD TRAN	7							
REV MATCH	7							
REV TRAN	7							
ISOLATION	1	4						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	4				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85032F Type N (50) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
8	OPEN -M-	Type N (50) male open	Type N (50)	MALE	89.939	2536.800	-264.990	13.400	0	999000	4.0856 E-11	0.93	50
2	OPEN -F-	Type N (50) female open	Type N (50)	FEMALE	89.939	2536.800	-264.990	13.400	0	999000	4.1170 E-11	0.93	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	SHORT -M-	Type N (50) male short	Type N (50)	MALE	3.3998	-496.4808	34.8314	-0.7847	0	999000	4.5955 E-11	1.087	49.992
1	SHORT -F-	Type N (50) female short	Type N (50)	FEMALE	3.3998	-496.4808	34.8314	-0.7847	0	999000	4.5955 E-11	1.087	49.99

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	BROADBAND LOAD -M-	Type N (50) male broadband load	Type N (50)	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
6	BROADBAND LOAD -F-	Type N (50) female broadband load	Type N (50)	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	THRU	Insertable thru standard	Type N (50)	FEMALE	Type N (50)	MALE	0	999000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N (50)	Type N (50) male	MALE	COAX	0	999000	0
Type N (50)	Type N (50) female	FEMALE	COAX	0	999000	0

85032F Type N (50) Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	8	2						
S11B	7	1						
S11C	3	6						
S22A	8	2						
S22B	7	1						
S22C	3	6						
FWD MATCH	4							
FWD TRAN	4							
REV MATCH	4							
REV TRAN	4							
ISOLATION	3	6						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	3	6				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85033D/E 3.5 mm Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	3.5 mm male open	APC 3.5	MALE	49.433	-310.13	23.168	-0.15966	0	999000	2.92E-11	2.2	50
5	OPEN -F-	3.5 mm female open	APC 3.5	FEMALE	49.433	-310.13	23.168	-0.15966	0	999000	2.92E-11	2.3	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT -M-	3.5 mm male short	APC 3.5	MALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.18E-11	2.36	50
6	SHORT -F-	3.5 mm female short	APC 3.5	FEMALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.18E-11	2.36	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND LOAD -M-	3.5 mm male broadband load	APC 3.5	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	2.3	50
4	BROADBAND LOAD -F-	3.5 mm female broadband load	APC 3.5	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	THRU	Insertable thru standard	APC 3.5	FEMALE	APC 3.5	MALE	0	999000	0.00E+00	2.3	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 3.5	APC 3.5 male	MALE	COAX	0	999000	0
APC 3.5	APC 3.5 female	FEMALE	COAX	0	999000	0

85033D/E 3.5 mm Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	5						
S11B	3	6						
S11C	1	4						
S22A	2	5						
S22B	3	6						
S22C	1	4						
FWD MATCH	7							
FWD TRAN	7							
REV MATCH	7							
REV TRAN	7							
ISOLATION	1	4						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	4				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85036B/E Type N (75) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	OPEN -M-	Type N (75) male open	Type N (75)	MALE	41	40	5	0	0	999000	1.75E-11	1.13	75
2	OPEN -F-	Type N (75) female open	Type N (75)	FEMALE	63.5	84	56	0	0	999000	0.00E+00	1.13	75

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	Type N (75) male short	Type N (75)	MALE	0	0	0	0	0	999000	1.75E-11	1.13	75
5	SHORT -F-	Type N (75) female short	Type N (75)	FEMALE	0	0	0	0	0	999000	9.30E-13	1.13	75

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	BROADBAND LOAD -M-	Type N (75) male broadband load	Type N (75)	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	1.13	75
7	BROADBAND LOAD -F-	Type N (75) female broadband load	Type N (75)	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	1.13	75

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	THRU	Insertable thru standard	Type N (75)	FEMALE	Type N (75)	MALE	0	999000	0.00E+00	1.13	75

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N (75)	Type N (75) male	MALE	COAX	0	999000	0
Type N (75)	Type N (75) female	FEMALE	COAX	0	999000	0

85036B/E Type N (75) Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	6	2						
S11B	1	5						
S11C	3	7						
S22A	6	2						
S22B	1	5						
S22C	3	7						
FWD MATCH	4							
FWD TRAN	4							
REV MATCH	4							
REV TRAN	4							
ISOLATION	3	7						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	3	7				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85038A 7-16 Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	7-16 male open	7-16	MALE	32	100	-50	100	0	999000	6.67E-11	0.63	50
5	OPEN -F-	7-16 female open	7-16	FEMALE	32	100	-50	100	0	999000	6.67E-11	0.63	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT -M-	7-16 male short	7-16	MALE	0	0	0	0	0	999000	6.67E-11	0.63	50
6	SHORT -F-	7-16 female short	7-16	FEMALE	0	0	0	0	0	999000	6.67E-11	0.63	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND LOAD -M-	7-16 male broadband load	7-16	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
4	BROADBAND LOAD -F-	7-16 female broadband load	7-16	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	THRU	Insertable thru standard	7-16	FEMALE	7-16	MALE	0	999000	0.00E+00	2.2	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
7-16	7-16 male	MALE	COAX	0	999000	0
7-16	7-16 female	FEMALE	COAX	0	18600	0

85038A 7-16 Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	5						
S11B	3	6						
S11C	1	4						
S22A	2	5						
S22B	3	6						
S22C	1	4						
FWD MATCH	7							
FWD TRAN	7							
REV MATCH	7							
REV TRAN	7							
ISOLATION	1	4						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	4				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85039B Type F (75) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	Type F (75) male open	Type F (75)	MALE	42.945	98.367	706.93	-114.957	0	999000	5.36E-11	1.64	75
5	OPEN -F-	Type F (75) female open	Type F (75)	FEMALE	42.945	98.367	706.93	-114.957	0	999000	5.36E-11	1.64	75

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT -M-	Type F (75) male short	Type F (75)	MALE	0	0	0	0	0	999000	5.70E-11	1.8	75
6	SHORT -F-	Type F (75) female short	Type F (75)	FEMALE	0	0	0	0	0	999000	5.70E-11	1.8	75

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	FIXED LOAD -M-	Type F (75) male fixed load	Type F (75)	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	1.13	75
4	FIXED LOAD -F-	Type F (75) female fixed load	Type F (75)	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	1.13	75

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	THRU	Insertable thru standard	Type F (75)	FEMALE	Type F (75)	MALE	0	999000	0.00E+00	1.13	75

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type F (75)	Type F (75) male	MALE	COAX	0	999000	0
Type F (75)	Type F (75) female	FEMALE	COAX	0	999000	0

85039B Type F (75) Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	5						
S11B	3	6						
S11C	1	4						
S22A	2	5						
S22B	3	6						
S22C	1	4						
FWD MATCH	7							
FWD TRAN	7							
REV MATCH	7							
REV TRAN	7							
ISOLATION	1	4						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	4				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85050B APC 7 with Sliding Load Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	OPEN	APC 7 open	APC 7	NONE	90.4799	763.303	-63.8176	6.4337	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
5	SHORT	APC 7 short	APC 7	NONE	0.3566	-33.392	1.7542	-0.0336	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	LOWBAND LOAD	APC 7 lowband load	APC 7	NONE	FIXED	OFF	OFF	0	2000	0.00E+00	0.7	50
2	SLIDING LOAD	APC 7 sliding load	APC 7	NONE	SLIDING	OFF	OFF	1990	999000	0.00E+00	1.99	50
3	BROADBAND LOAD	APC 7 broadband load	APC 7	NONE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	THRU	Insertable thru standard	APC 7	NONE	APC 7	NONE	0	999000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 7	APC 7	NONE	COAX	0	999000	0

85050B APC 7 with Sliding Load Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6							
FWD TRAN	6							
REV MATCH	6							
REV TRAN	6							
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	2	3			

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85050C APC 7 TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	OPEN	APC 7 open	APC 7	NONE	90.4799	763.303	-63.8176	6.4337	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	SHORT	APC 7 short	APC 7	NONE	0.3566	-33.392	1.7542	-0.0336	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND	APC 7 broadband load	APC 7	NONE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
2	LOWBAND LOAD	APC 7 lowband load	APC 7	NONE	FIXED	OFF	OFF	0	2000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
5	THRU	Insertable thru standard	APC 7	NONE	APC 7	NONE	0	999000	0.00E+00	0	50
6	LINE	2-18 line standard	APC 7	NONE	APC 7	NONE	1990	20010	2.319E-11	0.7	49.988

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 7	APC 7	NONE	COAX	0	999000	0

85050C APC 7 TRL Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	3							
S11B	4							
S11C	1	2						
S22A	3							
S22B	4							
S22C	1	2						
FWD MATCH	5	6						
FWD TRAN	5	6						
REV MATCH	5	6						
REV TRAN	5	6						
ISOLATION	1	2						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	5					
TRL REFLECT	4					
TRL LINE	6					
FWD MATCH	1	2				
REV MATCH	1	2				
ISOLATION	1	2				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85050D APC 7 Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN	APC 7 open	APC 7	NONE	90.4799	763.303	-63.8176	6.4337	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT	APC 7 short	APC 7	NONE	0.3566	-33.392	1.7542	-0.0336	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND	APC 7 broadband load	APC 7	NONE	FIXED	OFF	OFF	0	999000	0.00E+00	0.7	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	THRU	Insertable thru standard	APC 7	NONE	APC 7	NONE	0	999000	0.00E+00	0.7	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 7	APC 7	NONE	COAX	0	999000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2							
S11B	3							
S11C	1							
S22A	2							
S22B	3							
S22C	1							
FWD MATCH	4							
FWD TRAN	4							
REV MATCH	4							
REV TRAN	4							
ISOLATION	1							

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1					

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85052B 3.5 mm with Sliding Load Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	3.5 mm male open	APC 3.5	MALE	49.433	-310.13	23.168	-0.15966	0	999000	2.9243 E-11	2.2	50
15	OPEN -F-	3.5 mm female open	APC 3.5	FEMALE	49.433	-310.13	23.168	-0.15966	0	999000	2.9243 E-11	2.2	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	3.5 mm male short	APC 3.5	MALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.1785 E-11	2.36	50
7	SHORT -F-	3.5 mm female short	APC 3.5	FEMALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.1785 E-11	2.36	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	LOWBAND LOAD -M-	3.5 mm male lowband load	APC 3.5	MALE	FIXED	OFF	OFF	0	3001	0.00E+00	0	50
5	SLIDING LOAD -M-	3.5 mm male sliding load	APC 3.5	MALE	SLIDING	OFF	OFF	2990	999000	0.00E+00	0	50
3	BROADBAND LOAD -M-	3.5 mm male broadband load	APC 3.5	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
12	LOWBAND LOAD -F-	3.5 mm female lowband load	APC 3.5	FEMALE	FIXED	OFF	OFF	0	3001	0.00E+00	0	50
13	SLIDING LOAD -F-	3.5 mm female sliding load	APC 3.5	FEMALE	SLIDING	OFF	OFF	2999	999000	0.00E+00	0	50
14	BROADBAND LOAD -F-	3.5 mm female broadband load	APC 3.5	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	THRU	Insertable thru standard	APC 3.5	FEMALE	APC 3.5	MALE	0	999000	0.00E+00	0	50

85052B 3.5 mm with Sliding Load Calibration Kit (continued)

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 3.5	APC 3.5 male	MALE	COAX	0	999000	0
APC 3.5	APC 3.5 female	FEMALE	COAX	0	999000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	15						
S11B	1	7						
S11C	6	5	3	12	13	14		
S22A	2	15						
S22B	1	7						
S22C	6	5	3	12	13	14		
FWD MATCH	4							
FWD TRAN	4							
REV MATCH	4							
REV TRAN	4							
ISOLATION	6	5	3	12	13	14		

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	6	5	3	12	13	14

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85052C 3.5 mm SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	OPEN -M-	3.5 mm male open	APC 3.5	MALE	49.433	-310.13	23.168	-0.15966	0	999000	2.9243 E-11	2.2	50
4	OPEN -M-	3.5/2.92 mm male open	APC 3.5	MALE	6.9558	-1.0259	-0.01435	0.0028	0	999000	2.9243 E-11	2.3	50
5	OPEN -M-	3.5 mm/SMA male open	APC 3.5	MALE	5.9588	-11.195	0.5076	-0.00243	0	999000	2.9243 E-11	2.3	50
6	OPEN -M-	2.92 mm/SMA male open	APC 3.5	MALE	13.4203	-1.9452	0.5459	0.01594	0	999000	2.9243 E-11	2.3	50
10	OPEN -F-	3.5 mm female open	APC 3.5	FEMALE	49.433	-310.13	23.168	-0.15866	0	999000	2.9243 E-11	2.3	50
11	OPEN -F-	3.5/2.92 mm female open	APC 3.5	FEMALE	6.9558	-1.0259	-0.01435	0.0028	0	999000	2.9243 E-11	2.3	50
12	OPEN -F-	3.5 mm/SMA female open	APC 3.5	FEMALE	5.9588	-11.195	0.5076	-0.00243	0	999000	2.9243 E-11	2.3	50
13	OPEN -F-	2.92 mm/SMA female open	APC 3.5	FEMALE	13.4203	-1.9452	0.5459	0.01594	0	999000	2.9243 E-11	2.3	50

Std. No.	Label	Description	Connector	Sex	L0 H(E-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	SHORT -M-	3.5 mm male short	APC 3.5	MALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.1785 E-11	2.36	50
14	SHORT -F-	3.5 mm female short	APC 3.5	FEMALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.1785 E-11	2.36	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Broadband Load -M-	3.5 mm male broadband load	APC 3.5	MALE	FIXED	OFF	OFF	0	38800	0.00E+00	0	50
2	0-2 Load -M-	0-2 GHz male low band load	APC 3.5	MALE	FIXED	OFF	OFF	0	2000	0.00E+00	0	50
8	Broadband Load -F-	3.5 mm female broadband load	APC 3.5	FEMALE	FIXED	OFF	OFF	0	38800	0.00E+00	0	50
9	0-2 Load -F-	0-2 GHz female low band load	APC 3.5	FEMALE	FIXED	OFF	OFF	0	2000	0.00E+00	0	50

85052C 3.5 mm SOLT/TRL Calibration Kit (continued)

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
15	THRU	Insertable thru standard	APC 3.5	FEMALE	APC 3.5	MALE	0	38800	0.00E+00	0	50
16	7-32 Line	7-32 TRL line standard	APC 3.5	FEMALE	APC 3.5	MALE	6999	32001	1.3013E-11	1.3	50
17	2-7 Line	2-7 TRL line standard	APC 3.5	FEMALE	APC 3.5	MALE	1000	7001	5.3988E-11	1.3	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 3.5	APC 3.5 male	MALE	COAX	0	999000	0
APC 3.5	APC 3.5 female	FEMALE	COAX	0	999000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	3	4	5	6	10	11	12	13
S11B	7	14						
S11C	1	2	8	9				
S22A	3	4	5	6	10	11	12	13
S22B	7	14						
S22C	1	2	8	9				
FWD MATCH	15							
FWD TRAN	15							
REV MATCH	15							
REV TRAN	15							
ISOLATION	1	2	8	9				

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	15					
TRL REFLECT	7	14				
TRL LINE	1	2	8	9	16	17
FWD MATCH	1	2	8	9		
REV MATCH	1	2	8	9		
ISOLATION	1	2	8	9		

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85052D 3.5 mm Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	3.5 mm male open	APC 3.5	MALE	49.433	-310.13	23.168	-0.15966	0	999000	2.9243 E-11	2.2	50
15	OPEN -F-	3.5 mm female open	APC 3.5	FEMALE	49.433	-310.13	23.168	-0.15966	0	999000	2.9243 E-11	2.2	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	3.5 mm male short	APC 3.5	MALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.1785 E-11	2.36	50
7	SHORT -F-	3.5 mm female short	APC 3.5	FEMALE	2.0765	-108.54	2.1705	-0.01	0	999000	3.1785 E-11	2.36	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	BROADBAND LOAD -M-	3.5 mm male broadband load	APC 3.5	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
14	BROADBAND LOAD -F-	3.5 mm female broadband load	APC 3.5	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	THRU	Insertable thru standard	APC 3.5	FEMALE	APC 3.5	MALE	0	999000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 3.5	APC 3.5 male	MALE	COAX	0	999000	0
APC 3.5	APC 3.5 female	FEMALE	COAX	0	999000	0

85052D 3.5 mm Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	15						
S11B	1	7						
S11C	3	14						
S22A	2	15						
S22B	1	7						
S22C	3	14						
FWD MATCH	4							
FWD TRAN	4							
REV MATCH	4							
REV TRAN	4							
ISOLATION	3	14						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	3	14				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85054B Type N (50) with Sliding Load Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	OPEN -M-	Type N (50) male open	Type N (50)	MALE	89.939	2536.7999	-264.9901	13.4	0	999000	5.7993 E-11	0.93	50
9	OPEN -F-	Type N (50) female open	Type N (50)	FEMALE	104.13	-1943.4008	144.62	2.2258	0	999000	2.2905 E-11	0.93	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
5	SHORT -M-	Type N (50) male short	Type N (50)	MALE	0.7563	459.8799	-52.429	1.5846	0	999000	6.3078 E-11	1.1273	50
10	SHORT -F-	Type N (50) female short	Type N (50)	FEMALE	-0.1315	606.2089	-68.405	2.0206	0	999000	2.799 E-11	1.3651	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	LOWBAND LOAD -M-	Type N (50) male lowband load	Type N (50)	MALE	FIXED	OFF	OFF	0	2001	0.00E+00	0	50
2	SLIDING LOAD -M-	Type N (50) male sliding load	Type N (50)	MALE	SLIDING	OFF	OFF	1990	999000	0.00E+00	0	50
3	BROADBAND LOAD -M-	Type N (50) male broadband load	Type N (50)	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
6	LOWBAND LOAD -F-	Type N (50) female lowband load	Type N (50)	FEMALE	FIXED	OFF	OFF	0	2001	0.00E+00	0	50
7	SLIDING LOAD -F-	Type N (50) female sliding load	Type N (50)	FEMALE	SLIDING	OFF	OFF	1990	999000	0.00E+00	0	50
8	BROADBAND LOAD -F-	Type N (50) female broadband load	Type N (50)	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
11	THRU	Insertable thru standard	Type N (50)	FEMALE	Type N (50)	MALE	0	999000	0.00E+00	2.2	50

85054B Type N (50) with Sliding Load Calibration Kit (continued)

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N (50)	Type N (50) male	MALE	COAX	0	999000	0
Type N (50)	Type N (50) female	FEMALE	COAX	0	999000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	9						
S11B	5	10						
S11C	1	2	3	6	7	8		
S22A	4	9						
S22B	5	10						
S22C	1	2	3	6	7	8		
FWD MATCH	11							
FWD TRAN	11							
REV MATCH	11							
REV TRAN	11							
ISOLATION	1	2	3	6	7	8		

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	2	3	6	7	8

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85054D Type N (50) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	Type N (50) male open	Type N (50)	MALE	89.939	2536.7999	-264.9901	13.4	0	999000	5.7993 E-11	0.93	50
5	OPEN -F-	Type N (50) female open	Type N (50)	FEMALE	104.13	-1943.4008	144.62	2.2258	0	999000	2.2905 E-11	0.93	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT -M-	Type N (50) male short	Type N (50)	MALE	0.7563	459.8799	-52.429	1.5846	0	999000	6.3078 E-11	1.1273	50
6	SHORT -F-	Type N (50) female short	Type N (50)	FEMALE	-0.1315	606.2089	-68.405	2.0206	0	999000	2.799 E-11	1.13651	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND LOAD -M-	Type N (50) male broadband load	Type N (50)	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
4	BROADBAND LOAD -F-	Type N (50) female broadband load	Type N (50)	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	THRU	Insertable thru standard	Type N (50)	FEMALE	Type N (50)	MALE	0	999000	0.00E+00	2.2	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N (50)	Type N (50) male	MALE	COAX	0	999000	0
Type N (50)	Type N (50) female	FEMALE	COAX	0	999000	0

85054D Type N (50) Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	5						
S11B	3	6						
S11C	1	4						
S22A	2	5						
S22B	3	6						
S22C	1	4						
FWD MATCH	7							
FWD TRAN	7							
REV MATCH	7							
REV TRAN	7							
ISOLATION	1	4						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	4				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85056A 2.4 mm with Sliding Load Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	OPEN -M-	2.4 mm male open	APC 2.4	MALE	29.722	165.78	-3.5386	0.071	0	999000	2.0837 E-11	3.23	50
9	OPEN -F-	2.4 mm female open	APC 2.4	FEMALE	29.72	165.78	-3.5385	0.071	0	999000	2.0837 E-11	3.23	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
5	SHORT -M-	2.4 mm male short	APC 2.4	MALE	2.1636	-146.35	4.0443	-0.0363	0	999000	2.2548 E-11	3.554	50
10	SHORT -F-	2.4 mm female short	APC 2.4	FEMALE	2.1636	-146.35	4.0443	-0.0363	0	999000	2.2548 E-11	3.554	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	LOWBAND LOAD -M-	2.4 mm male lowband load	APC 2.4	MALE	FIXED	OFF	OFF	0	4001	0.00E+00	0	50
2	SLIDING LOAD -M-	2.4 mm male sliding load	APC 2.4	MALE	SLIDING	OFF	OFF	3999	999000	0.00E+00	0	50
3	BROADBAND LOAD -M-	2.4 mm male broadband load	APC 2.4	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
6	LOWBAND LOAD -F-	2.4 mm female lowband load	APC 2.4	FEMALE	FIXED	OFF	OFF	0	4001	0.00E+00	0	50
7	SLIDING LOAD -F-	2.4 mm female sliding load	APC 2.4	FEMALE	SLIDING	OFF	OFF	3999	999000	0.00E+00	0	50
8	BROADBAND LOAD -F-	2.4 mm female broadband load	APC 2.4	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
11	THRU	Insertable thru standard	APC 2.4	FEMALE	APC 2.4	MALE	0	999000	0.00E+00	3.554	50

85056A 2.4 mm with Sliding Load Calibration Kit (continued)

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 2.4	APC 2.4 male	MALE	COAX	0	999000	0
APC 2.4	APC 2.4 female	FEMALE	COAX	0	999000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	9						
S11B	5	10						
S11C	1	2	3	6	7	8		
S22A	4	9						
S22B	5	10						
S22C	1	2	3	6	7	8		
FWD MATCH	11							
FWD TRAN	11							
REV MATCH	11							
REV TRAN	11							
ISOLATION	1	2	3	6	7	8		

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	2	3	6	7	8

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85056D 2.4 mm Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	2.4 mm male open	APC 2.4	MALE	29.722	165.78	-3.5386	0.071	0	999000	2.0837 E-11	3.23	50
6	OPEN -F-	2.4 mm female open	APC 2.4	FEMALE	29.72	165.78	-3.5385	0.071	0	999000	2.0837 E-11	3.23	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	2.4 mm male short	APC 2.4	MALE	2.1636	-146.35	4.0443	-0.0363	0	999000	2.2548 E-11	3.554	50
7	SHORT -F-	2.4 mm female short	APC 2.4	FEMALE	2.1636	-146.35	4.0443	-0.0363	0	999000	2.2548 E-11	3.554	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	BROADBAND LOAD -M-	2.4 mm male broadband load	APC 2.4	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
5	BROADBAND LOAD -F-	2.4 mm female broadband load	APC 2.4	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	THRU	Insertable thru standard	APC 2.4	FEMALE	APC 2.4	MALE	0	999000	0.00E+00	3.554	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
APC 2.4	APC 2.4 male	MALE	COAX	0	999000	0
APC 2.4	APC 2.4 female	FEMALE	COAX	0	999000	0

85056D 2.4 mm Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	2	6						
S11B	1	7						
S11C	3	5						
S22A	2	6						
S22B	1	7						
S22C	3	5						
FWD MATCH	4							
FWD TRAN	4							
REV MATCH	4							
REV TRAN	4							
ISOLATION	3	5						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	3	5				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85056K 2.4 mm/2.92 mm with Broadband Load Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	OPEN -M-	2.4 mm male open	2.92 mm	MALE	29.722	165.78	-3.5385	0.071	0	46500	-1.8842 E-11	4.47	50
13	OPEN -F-	2.4 mm female open	2.92 mm	FEMALE	29.722	165.78	-3.5385	0.071	0	46500	-1.8842 E-11	4.47	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
9	SHORT -M-	2.4 mm male short	2.92 mm	MALE	2.1636	-146.35	4.0443	-0.0363	0	46500	-1.7128 E-11	4.16	50
18	SHORT -F-	2.4 mm female short	2.92 mm	FEMALE	2.1636	-146.35	4.0443	-0.0363	0	46500	-1.7128 E-11	4.16	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	BROADBAND LOAD -M-	2.4 mm male broadband load	2.92 mm	MALE	FIXED	OFF	OFF	0	46500	0.00E+00	0	50
12	BROADBAND LOAD -F-	2.4 mm female broadband load	2.92 mm	FEMALE	FIXED	OFF	OFF	0	46500	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
19	THRU	2.4 mm/2.92 mm adapter pair	2.92 mm	FEMALE	2.92 mm	MALE	0	46500	1.00E-16	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
2.92 mm	2.92 mm male	MALE	COAX	0	46500	0
2.92 mm	2.92 mm female	FEMALE	COAX	0	46500	0

85056K 2.4 mm/2.92 mm with Broadband Load Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	13						
S11B	9	18						
S11C	1	12						
S22A	4	13						
S22B	9	18						
S22C	1	12						
FWD MATCH	19							
FWD TRAN	19							
REV MATCH	19							
REV TRAN	19							
ISOLATION	1	12						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	1	12				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85058B Databased 1.85 mm Precision Calibration Kit

Std. No.	Label	Description	Connector	Sex	F min (MHz)	F max (MHz)
9	LOWBAND -F-	1.85 mm female lowband [LB LOAD]	1.85 mm	FEMALE	0	35500
4	OPEN LB -F-	1.85 mm female [OPEN]	1.85 mm	FEMALE	0	35500
3	SHORT 1 -F-	1.85 mm female [SHORT 1]	1.85 mm	FEMALE	0	73000
17	SHORT 2 -F-	1.85 mm female [SHORT 2]	1.85 mm	FEMALE	34900	73000
18	SHORT 3 -F-	1.85 mm female [SHORT 3]	1.85 mm	FEMALE	44999	73000
19	SHORT 4 -F-	1.85 mm female [SHORT 4]	1.85 mm	FEMALE	34900	55010
24	LOWBAND -M-	1.85 mm male lowband [LB LOAD]	1.85 mm	MALE	0	35500
2	OPEN LB -M-	1.85 mm male [OPEN]	1.85 mm	MALE	0	35500
1	SHORT 1 -M-	1.85 mm male [SHORT 1]	1.85 mm	MALE	0	73000
13	SHORT 2 -M-	1.85 mm male [SHORT 2]	1.85 mm	MALE	34900	73000
14	SHORT 3 -M-	1.85 mm male [SHORT 3]	1.85 mm	MALE	44999	73000
15	SHORT 4 -M-	1.85 mm male [SHORT 4]	1.85 mm	MALE	34900	55010

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
11	THRU	Insertable thru standard	1.85 mm	MALE	1.85 mm	FEMALE	0	73000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
1.85 mm	1.85 mm female	FEMALE	COAX	0	73000	0
1.85 mm	1.85 mm male	MALE	COAX	0	73000	0

85058B Databased 1.85 mm Precision Database Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	18	19	2	14	15		
S11B	3	1						
S11C	9	17	24	13				
S22A	4	18	19	2	14	15		
S22B	3	1						
S22C	9	17	24	13				
FWD MATCH	11							
FWD TRAN	11							
REV MATCH	11							
REV TRAN	11							
ISOLATION								

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION						

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = REFLECT STANDARD

85058BP Polynomial 1.85 mm (Reduced Accuracy) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	OPEN LB -F-	1.85 mm female [OPEN]	1.85 mm	FEMALE	-7.7748	1332.4	-64.26	0.90991	0	35500	1.8015 E-11	3.2754	50
8	OPEN BB -F-	1.85 mm female [OPEN]	1.85 mm	FEMALE	-3.5342	425.24	-13.946	0.12741	0	999000	1.8001 E-11	3.2822	50
2	OPEN LB -M-	1.85 mm male [OPEN]	1.85 mm	MALE	2.127	73.815	-9.1135	0.13886	0	35500	1.8011 E-11	3.2762	50
6	OPEN BB -M-	1.85 mm male [OPEN]	1.85 mm	MALE	2.2757	0.60959	-3.9739	0.05204	0	999000	1.8011 E-11	3.2815	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT 1 LB -F-	1.85 mm female [SHORT 1]	1.85 mm	FEMALE	1.8222	-934.86	64.091	-1.1161	0	35010	1.8012 E-11	3.9664	50
16	SHORT 1 HB -F-	1.85 mm female [SHORT 1]	1.85 mm	FEMALE	81.443	-5397.5	114.29	-0.77746	34900	73000	1.8012 E-11	4.0306	50
17	SHORT 2 -F-	1.85 mm female [SHORT 2]	1.85 mm	FEMALE	-168.11	10025	-195.63	1.2477	34900	73000	2.1015 E-11	3.9661	50
18	SHORT 3 -F-	1.85 mm female [SHORT 3]	1.85 mm	FEMALE	-85.542	5237.9	-105.29	0.68943	44999	73000	2.3750 E-11	3.9432	50
19	SHORT 4 -F-	1.85 mm female [SHORT 4]	1.85 mm	FEMALE	83.336	-4925.8	95.83	-0.61258	34900	55010	2.5351 E-11	3.8798	50
7	SHORT 1 BB -F-	1.85 mm female [SHORT 1]	1.85 mm	FEMALE	1.4957	-323.18	11.624	-0.10939	0	999000	1.8012 E-11	4.0812	50
1	SHORT 1 LB -M-	1.85 mm male [SHORT 1]	1.85 mm	MALE	-0.0845	163.6838	-7.0736	0.0811	0	35010	1.7998 E-11	4.109881	50
12	SHORT 1 HB -M-	1.85 mm male [SHORT 1]	1.85 mm	MALE	-26.329	1436.9	-24.863	0.1393	34900	73000	1.8012 E-11	4.0087	50
13	SHORT 2 -M-	1.85 mm male [SHORT 2]	1.85 mm	MALE	5.2837	-255.25	4.4398	-0.0248	34900	73000	2.1015 E-11	3.9424	50
14	SHORT 3 -M-	1.85 mm male [SHORT 3]	1.85 mm	MALE	-18.399	854.22	-12.502	0.0595	44999	73000	2.3750 E-11	3.9568	50
15	SHORT 4 -M-	1.85 mm male [SHORT 4]	1.85 mm	MALE	31.176	-1738.2	32.421	-0.1988	34900	55010	2.5351 E-11	3.8911	50
5	SHORT 1 BB -M-	1.85 mm male [SHORT 1]	1.85 mm	MALE	0.9658	8.9552	-0.7884	0.0079	0	999000	1.8012 E-11	4.0608	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
9	LOWBAND -F-	1.85 mm female lowband [LB LOAD]	1.85 mm	FEMALE	FIXED	OFF	OFF	0	35500	0.00E+00	0	50
10	BROADBAND -F-	1.85 mm female broadband [LB LOAD]	1.85 mm	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
24	LOWBAND -M-	1.85 mm male lowband [LB LOAD]	1.85 mm	MALE	FIXED	OFF	OFF	0	35500	0.00E+00	0	50
22	BROADBAND -M-	1.85 mm male broadband [LB LOAD]	1.85 mm	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
11	THRU	Insertable thru standard	1.85 mm	MALE	1.85 mm	FEMALE	0	73000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
1.85 mm	1.85 mm female	FEMALE	COAX	0	73000	0
1.85 mm	1.85 mm male	MALE	COAX	0	73000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	18	19	8	2	14	15	6
S11B	3	16	7	1	12	5		
S11C	9	17	10	24	13	22		
S22A	4	18	19	8	2	14	15	6
S22B	3	16	7	1	12	5		
S22C	9	17	10	24	13	22		
FWD MATCH	11							
FWD TRAN	11							
REV MATCH	11							
REV TRAN	11							
ISOLATION	9	10	24	22				

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	9	10	24	22		

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = REFLECT STANDARD

85058E Databased 1.85 mm Economy Calibration Kit

Std. No.	Label	Description	Connector	Sex	F min (MHz)	F max (MHz)
9	BROADBAND -F-	1.85 mm female broadband load [TERM]	1.85 mm	FEMALE	0	70000
4	OPEN BB -F-	1.85 mm female [OPEN]	1.85 mm	FEMALE	0	70000
3	SHORT 1 -F-	1.85 mm female [SHORT 1]	1.85 mm	FEMALE	0	70000
24	BROADBAND -M-	1.85 mm male broadband load [TERM]	1.85 mm	MALE	0	70000
2	OPEN BB -M-	1.85 mm male [OPEN]	1.85 mm	MALE	0	70000
1	SHORT 1 -M-	1.85 mm male [SHORT 1]	1.85 mm	MALE	0	70000

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
11	THRU	Insertable thru standard	1.85 mm	MALE	1.85 mm	FEMALE	0	73000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
1.85 mm	1.85 mm female	FEMALE	COAX	0	73000	0
1.85 mm	1.85 mm male	MALE	COAX	0	73000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	2						
S11B	3	1						
S11C	9	24						
S22A	4	2						
S22B	3	1						
S22C	9	24						
FWD MATCH	11							
FWD TRAN	11							
REV MATCH	11							
REV TRAN	11							
ISOLATION	9	24						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	9	24				

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = REFLECT STANDARD

85058EP Polynomial 1.85 mm Economy (Reduced Accuracy) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	OPEN BB -F-	1.85 mm female [OPEN]	1.85 mm	FEMALE	-3.5342	425.24	-13.946	0.12741	0	999000	1.8001 E-11	3.2822	50
2	OPEN BB -M-	1.85 mm male [OPEN]	1.85 mm	MALE	2.2757	0.60959	-3.9739	0.05204	0	999000	1.8011 E-11	3.2815	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT 1 BB -F-	1.85 mm female [SHORT 1]	1.85 mm	FEMALE	1.7655	-68.032	1.2192	-0.0073	0	999000	1.8012 E-11	4.0812	50
1	SHORT 1 BB -M-	1.85 mm male [SHORT 1]	1.85 mm	MALE	0.9658	8.9552	-0.7884	0.0079	0	999000	1.8012 E-11	4.0608	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
9	BROADBAND -F-	1.85 mm female broadband load [TERM]	1.85 mm	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
24	BROADBAND -M-	1.85 mm male broadband load [TERM]	1.85 mm	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
11	THRU	Insertable thru standard	1.85 mm	MALE	1.85 mm	FEMALE	0	73000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
1.85 mm	1.85 mm female	FEMALE	COAX	0	73000	0
1.85 mm	1.85 mm male	MALE	COAX	0	73000	0

85058EP Polynomial 1.85 mm Economy (Reduced Accuracy) Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	2						
S11B	3	1						
S11C	9	24						
S22A	4	2						
S22B	3	1						
S22C	9	24						
FWD MATCH	11							
FWD TRAN	11							
REV MATCH	11							
REV TRAN	11							
ISOLATION	9	24						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	9	24				

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

85059A Databased 1.00 mm Precision Calibration Kit

Std. No.	Label	Description	Connector	Sex	F min (MHz)	F max (MHz)
1	SHORT 1 -M-	1.00 mm Male [SHORT 1]	1.00 mm	MALE	49000	110000
2	SHORT 2 -M-	1.00 mm Male [SHORT 2]	1.00 mm	MALE	65000	110000
3	SHORT 3 -M-	1.00 mm Male [SHORT 3]	1.00 mm	MALE	0	110000
4	SHORT 4 -M-	1.00 mm Male [SHORT 4]	1.00 mm	MALE	49000	75100
5	OPEN -M-	1.00 mm Male [OPEN]	1.00 mm	MALE	0	50500
6	LB LOAD -M-	1.00 mm Male [LB LOAD]	1.00 mm	MALE	0	50500
7	SHORT 1 -F-	1.00 mm Female [SHORT 1]	1.00 mm	FEMALE	49000	110000
8	SHORT 2 -F-	1.00 mm Female [SHORT 2]	1.00 mm	FEMALE	65000	110000
9	SHORT 3 -F-	1.00 mm Female [SHORT 3]	1.00 mm	FEMALE	0	110000
10	SHORT 4 -F-	1.00 mm Female [SHORT 4]	1.00 mm	FEMALE	49000	79100
11	OPEN -F-	1.00 mm Female [OPEN]	1.00 mm	FEMALE	0	50500
12	LOWBAND -F-	1.00 mm Female [LB LOAD]	1.00 mm	FEMALE	0	50500

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
13	THRU	Insertable thru standard	1.00 mm	FEMALE	1.00 mm	MALE	0	120000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
1.00 mm	1.00 mm male	MALE	COAX	0	120000	0
1.00 mm	1.00 mm female	FEMALE	COAX	0	120000	0

85059A Databased 1.00 mm Precision Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	1	6	7	12				
S11B	2	4	5	8	10	11		
S11C	3	9						
S22A	1	6	7	12				
S22B	2	4	5	8	10	11		
S22C	3	9						
FWD MATCH	13							
FWD TRAN	13							
REV MATCH	13							
REV TRAN	13							
ISOLATION	6	12						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU						
TRL REFLECT						
TRL LINE						
FWD MATCH						
REV MATCH						
ISOLATION	6	12				

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = REFLECT STANDARD

85059AP Polynomial 1.00 mm (Reduced Accuracy) Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	OPEN LB -F-	1.00 mm female [OPEN]	1.00 mm	FEMALE	29.27	360.024	-8.3672	0.0758	0	50500	6.575 E-12	8	50
8	OPEN BB -F-	1.00 mm female [OPEN]	1.00 mm	FEMALE	28.4	543.356	-11.754	0.0793	0	999000	6.575 E-12	8	50
2	OPEN LB -M-	1.00 mm male [OPEN]	1.00 mm	MALE	31.579	162.211	-4.0954	0.037	0	50500	6.575 E-12	7.8	50
6	OPEN BB -M-	1.00 mm male [OPEN]	1.00 mm	MALE	31.043	274.897	-6.625	0.0539	0	999000	6.575 E-12	8	50

Std. No.	Label	Description	Connector	Sex	L0 H(E-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	SHORT 3 LB -F-	1.00 mm female [SHORT 3]	1.00 mm	FEMALE	2.419	-21.1901	-0.8034	0.0095	0	50500	8.149 E-12	7.7	50
16	SHORT 1 HB -F-	1.00 mm female [SHORT 1]	1.00 mm	FEMALE	-0.9209	107.672	-1.553	0.0057	49900	999000	4.313 E-12	8	50
17	SHORT 2 -F-	1.00 mm female [SHORT 2]	1.00 mm	FEMALE	11.2987	-384.343	3.251	-0.009	65000	999000	6.064 E-12	8.55	50
18	SHORT 3 -F-	1.00 mm female [SHORT 3]	1.00 mm	FEMALE	8.2341	-305.298	3.7762	-0.015	49900	999000	8.149 E-12	8	50
19	SHORT 4 -F-	1.00 mm female [SHORT 4]	1.00 mm	FEMALE	45.099	-1988.66	27.99	-0.1258	49900	75100	9.984 E-12	8.23	50
7	SHORT 3 BB -F-	1.00 mm female [SHORT 3]	1.00 mm	FEMALE	4.3065	-156.379	1.9852	-0.0081	0	999000	8.149 E-12	7.9	50
1	SHORT 3 LB -M-	1.00 mm male [SHORT 3]	1.00 mm	MALE	3.2053	-171.65	3.3888	-0.0208	0	50500	8.149 E-12	7.74	50
12	SHORT 1 HB -M-	1.00 mm male [SHORT 1]	1.00 mm	MALE	4.4217	-174.59	2.2083	-0.0084	49900	999000	4.313 E-12	8	50
13	SHORT 2 -M-	1.00 mm male [SHORT 2]	1.00 mm	MALE	-14.4155	484.395	-5.0055	0.0164	65000	999000	6.064 E-12	8.51	50
14	SHORT 3 -M-	1.00 mm male [SHORT 3]	1.00 mm	MALE	1.14	24.8423	-0.9462	0.006	49900	999000	8.149 E-12	8	50
15	SHORT 4 -M-	1.00 mm male [SHORT 4]	1.00 mm	MALE	3.6474	-113.206	1.1075	-0.0027	49900	75100	9.984 E-12	8.2	50
5	SHORT 3 BB -M-	1.00 mm male [SHORT 3]	1.00 mm	MALE	0.2885	40.2472	-0.9816	0.0057	0	999000	8.149 E-12	7.93	50

85059AP Polynomial 1.00 mm (Reduced Accuracy) Calibration Kit (continued)

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
9	50 GHz LOAD -F-	1.00 mm female 50 GHz LOAD	1.00 mm	FEMALE	FIXED	OFF	OFF	0	50000	0.00E+00	0	50
10	BROADBAND -F-	1.00 mm female broadband LOAD	1.00 mm	FEMALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50
23	50 GHz MATCH -F-	1.00 mm female 50 GHz LOAD	1.00 mm	FEMALE	FIXED	OFF	OFF	0	55500	1.00E+05	0	50
24	50 GHz LOAD -M-	1.00 mm male 50 GHz LOAD	1.00 mm	MALE	FIXED	OFF	OFF	0	50500	0.00E+00	0	50
21	50 GHz MATCH -M-	1.00 mm male 50 GHz LOAD	1.00 mm	MALE	FIXED	OFF	OFF	0	55500	1.00E+05	0	50
22	BROADBAND -M-	1.00 mm male broadband LOAD	1.00 mm	MALE	FIXED	OFF	OFF	0	999000	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
11	THRU	Insertable thru standard	1.00 mm	MALE	1.00 mm	FEMALE	0	999000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
1.00 mm	1.00 mm female	FEMALE	COAX	0	999000	0
1.00 mm	1.00 mm male	MALE	COAX	0	999000	0

85059AP Polynomial 1.00 mm (Reduced Accuracy) Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4	18	2	14				
S11B	3	16	1	12				
S11C	9	17	19	24	13	15		
S22A	4	18	2	14				
S22B	3	16	1	12				
S22C	9	17	19	24	13	15		
FWD MATCH	11							
FWD TRAN	11							
REV MATCH	11							
REV TRAN	11							
ISOLATION	10	22						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	11					
TRL REFLECT	7	5				
TRL LINE	23	21				
FWD MATCH	11					
REV MATCH	11					
ISOLATION	10	22				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85059B 1.00mm Precision 120 GHz Databased Calibration Kit

Std. No.	Label	Description	Connector	Sex	F min (MHz)	F max (MHz)
1	SHORT 1 -M-	1.00 mm male short 1 (1.30mm)	1.00 mm	Male	0	130000
2	SHORT 2 -M-	1.00 mm male short 2 (2.45mm)	1.00 mm	Male	0	130000
3	SHORT 3 -M-	1.00 mm male short 3 (3.326mm)	1.00 mm	Male	0	130000
4	SHORT 4 -M-	1.00 mm male short 4 (4.039mm)	1.00 mm	Male	0	130000
5	OPEN -M-	1.00 mm male open	1.00 mm	Male	0	130000
6	LB LOAD -M-	1.00 mm male LB load 50 GHz	1.00 mm	Male	0	50100
7	SHORT 1 -F-	1.00 mm female short 1 (1.30mm)	1.00 mm	Female	0	130000
8	SHORT 2 -F-	1.00 mm female short 2 (2.45mm)	1.00 mm	Female	0	130000
9	SHORT 3 -F-	1.00 mm female short 3 (3.326mm)	1.00 mm	Female	0	130000
10	SHORT 4 -F-	1.00 mm female short 4 (4.039mm)	1.00 mm	Female	0	130000
11	OPEN -F-	1.00 mm female open	1.00 mm	Female	0	130000
12	LB LOAD -F-	1.00 mm female LB load 50GHz	1.00 mm	Female	0	50100

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
13	THRU	Insertable thru standard	1.00 mm	Female	1.00 mm	Male	0	130000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
1.00 mm	1.00 mm male	Male	Coax	0	130000	0
1.00 mm	1.00 mm female	Female	Coax	0	130000	0

85059B 1.00mm Precision 120 GHz Databased Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2	8						
SB	5	11	1	7				
SC	6	12	3	4	9	10		
FORWARD_THRU	13							
FORWARD_MATCH	13							
REVERSE_THRU	13							
REVERSE_MATCH	13							
ISOLATION	6	12						

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL_REFLECT						
TRL_LINE						
TRL_MATCH						
ISOLATION	6	12				

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

N9910X-800 Type N (50)(m) 3-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	Short -M-	Type N (50)	MALE	36.37	-166.2	-2434	292.1	0	6000	7.086 E-11	1.424	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	Open -M-	Type N (50)	MALE	-2.686	-791.9	607.9	-65.48	0	6000	7.097 E-11	2.134	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	LOAD -M-	Broadband Load -M-	Type N (50)	MALE	FIXED	OFF	OFF	0	6000	0.00E+00	0.0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N (50)	Type N (50) male	MALE	COAX	0	10000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	1							
SB	2							
SC	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = REFLECT STANDARD

N9910X-801 Type N (50)(f) 3-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -F-	Short -F-	Type N (50)	FEMALE	-51.89	6561	4101	-675.7	0	6000	4.11E-11	2.395	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -F-	Open -F-	Type N (50)	FEMALE	17.89	-2511	-934.3	163.4	0	6000	4.08E-11	1.21	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	LOAD -F-	Broadband Load -F-	Type N (50)	FEMALE	FIXED	OFF	OFF	0	6000	0.00E+00	0.0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N (50)	Type N (50) female	FEMALE	COAX	0	10000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	1							
SB	2							
SC	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = REFLECT STANDARD

N9910X-802 7-16 (m) 3-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	Short -M-	7-16	MALE	2.359	1497	-2692	454.1	0	6000	6.636 E-11	0.4609	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	Open -M-	7-16	MALE	14.83	-25060	8570	-808.2	0	6000	6.587 E-11	0.4609	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	LOAD -M-	Broadband Load -M-	7-16	MALE	FIXED	OFF	OFF	0	6000	0.00E+00	0.0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
7-16	7-16 male	MALE	COAX	0	20000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	1							
SB	2							
SC	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = REFLECT STANDARD

N9910X-803 7-16 (f) 3-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -F-	Short -F-	7-16	FEMALE	-25.57	16390	-6690	834.2	0	6000	9.757 E-11	0.4609	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -F-	Open -F-	7-16	FEMALE	-9.373	-2142	1761	-199.3	0	6000	9.72E-11	0.4609	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	LOAD -F-	Broadband Load -F-	7-16	FEMALE	FIXED	OFF	OFF	0	6000	0.00E+00	0.0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
7-16	7-16 female	FEMALE	COAX	0	20000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	1							
SB	2							
SC	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = REFLECT STANDARD

85514A Type N (50)(m) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	Type N (50) male short	Type N	MALE	20.224	-1479.2	-591.4	63.325	0	10000	5.3385 E-11	0.9235	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	Type N (50) male open	Type N	MALE	-8.9274	-105.82	585.23	-53.079	0	10000	5.3882 E-11	0.8392	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	Broadband Load -M-	Type N (50) male broadband load	Type N	MALE	FIXED	OFF	OFF	0	10000	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Thru M-M	Define thru M-M	Type N	MALE	Type N	MALE	0	10000	2.42E-10	0.84	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N	Type N male	MALE	COAX	0	10000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2							
SB	1							
SC	3							
FORWARD_THRU	4							
FORWARD_MATCH	4							
REVERSE_THRU	4							
REVERSE_MATCH	4							
ISOLATION	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85515A Type N (50)(f) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -F-	Type N (50) female short	Type N	FEMALE	25.366	-8070.9	932.91	-33.888	0	10000	5.3385 E-11	0.9235	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -F-	Type N (50) female open	Type N	FEMALE	-7.7250	-2062.8	1317.5	-112.18	0	10000	5.3531 E-11	0.8392	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	Broadband Load -F-	Type N (50) female broadband load	Type N	FEMALE	FIXED	OFF	OFF	0	10000	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Thru F-F	Define thru F-F	Type N	FEMALE	Type N	FEMALE	0	10000	2.42E-10	0.84	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N	Type N female	FEMALE	COAX	0	10000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2							
SB	1							
SC	3							
FORWARD_THRU	4							
FORWARD_MATCH	4							
REVERSE_THRU	4							
REVERSE_MATCH	4							
ISOLATION	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85518A Type N (50)(m) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	Type N (50) male short	Type N	MALE	41.01	-13740	1386	-41.56	0	18000	8.6021 E-11	1.08	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	Type N (50) male open	Type N	MALE	8.471	-2513.0	171.3	-1.47	0	18000	5.595 E-11	1.08	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	Broadband Load -M-	Type N (50) male broadband load	Type N	MALE	FIXED	OFF	OFF	0	18000	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Thru M-M	Define thru M-M	Type N	MALE	Type N	MALE	0	18000	2.45383E-10	1.08	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N	Type N male	MALE	COAX	0	18000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2							
SB	1							
SC	3							
FORWARD_THRU	4							
FORWARD_MATCH	4							
REVERSE_THRU	4							
REVERSE_MATCH	4							
ISOLATION	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85519A Type N (50)(f) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -F-	Type N (50) female short	Type N	FEMALE	16.9	-5881	614.4	-18.52	0	18000	8.5954 E-11	0.89	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -F-	Type N (50) female open	Type N	FEMALE	0.8918	-1200	85.41	0.13	0	18000	8.5954 E-11	0.89	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	Broadband Load -F-	Type N (50) female broadband load	Type N	FEMALE	FIXED	OFF	OFF	0	18000	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Thru F-F	Define thru F-F	Type N	FEMALE	Type N	FEMALE	0	18000	2.44949E-10	0.89	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Type N	Type N female	FEMALE	COAX	0	18000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2							
SB	1							
SC	3							
FORWARD_THRU	4							
FORWARD_MATCH	4							
REVERSE_THRU	4							
REVERSE_MATCH	4							
ISOLATION	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85520A 3.5 mm (m) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	3.5 mm male short	3.5 mm	MALE	4.645	-331	10.8	-0.12	0	26500	3.0508 E-11	1.8	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	3.5 mm male open	3.5 mm	MALE	-0.11	6	-4.39	0.179	0	26500	3.0765 E-11	1.8	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	Broadband Load -M-	3.5 mm male broadband load	3.5 mm	MALE	FIXED	OFF	OFF	0	26500	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Thru M-M	Define thru M-M	3.5 mm	MALE	3.5 mm	MALE	0	26500	1.15888E-10	1.8	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
3.5 mm	3.5 mm male	MALE	COAX	0	26500	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2							
SB	1							
SC	3							
FORWARD_THRU	4							
FORWARD_MATCH	4							
REVERSE_THRU	4							
REVERSE_MATCH	4							
ISOLATION	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85521A 3.5 mm (f) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -F-	3.5 mm female short	3.5 mm	FEMALE	-8.424	2912	-217	4.51	0	26500	3.0581 E-11	1.8	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -F-	3.5 mm female open	3.5 mm	FEMALE	3.695	-625.6	-2.2	0.104	0	26500	3.1823 E-11	1.8	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	Broadband Load -F-	3.5 mm female broadband load	3.5 mm	FEMALE	FIXED	OFF	OFF	0	26500	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Thru F-F	Define thru F-F	3.5 mm	FEMALE	3.5 mm	FEMALE	0	26500	1.15881E-10	1.8	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
3.5 mm	3.5 mm female	FEMALE	COAX	0	26500	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2							
SB	1							
SC	3							
FORWARD_THRU	4							
FORWARD_MATCH	4							
REVERSE_THRU	4							
REVERSE_MATCH	4							
ISOLATION	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85561A 2.92 mm (f) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	OPEN -F-	2.92 mm female open	2.92 mm	FEMALE	3.7458	-609.26	21.172	-0.14373	0	44000	3.1522 E-11	2.309	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	SHORT -F-	2.92 mm female short	2.92 mm	FEMALE	1.5918	-596.22	27.315	-0.42643	0	44000	3.1288 E-11	2.046	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
5	LOAD -F-	2.92 mm female load	2.92 mm	FEMALE	FIXED	OFF	OFF	0	44000	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	THRU	Insertable thru standard	2.92 mm	FEMALE	2.92 mm	FEMALE	0	44000	1.16114E-10	2.5	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
2.92 mm	2.92 mm female	FEMALE	COAX	0	44000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	1							
SB	2							
SC	5							
FORWARD_THRU	7							
FORWARD_MATCH	7							
REVERSE_THRU	7							
REVERSE_MATCH	7							
ISOLATION	5							
PARTIALLY_KNOWN_THRU	7							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85562A 2.92 mm (m) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	OPEN -M-	2.92 mm male open	2.92 mm	MALE	2.1868	310.6	-18.4723	0.37014	0	44000	3.1288 E-11	2.309	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	SHORT -M-	2.92 mm male short	2.92 mm	MALE	2.6109	-1018.47	51.738	-0.77377	0	44000	3.1288 E-11	2.046	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	LOAD -M-	2.92 mm male load	2.92 mm	MALE	FIXED	OFF	OFF	0	44000	0.00E+00	0.0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	THRU	Insertable thru standard	2.92 mm	MALE	2.92 mm	MALE	0	44000	1.161E-10	2.5	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
2.92 mm	2.92 mm male	MALE	COAX	0	44000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	3							
SB	4							
SC	6							
FORWARD_THRU	7							
FORWARD_MATCH	7							
REVERSE_THRU	7							
REVERSE_MATCH	7							
ISOLATION	6							
PARTIALLY_KNOWN_THRU	7							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85563A 2.4 mm (f) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	OPEN -F-	2.4 mm female open	2.4 mm	FEMALE	29.72	165.78	-3.5386	0.071	0	50000	2.0837 E-11	3.23	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
7	SHORT -F-	2.4 mm female short	2.4 mm	FEMALE	2.1636	-146.35	4.0443	-0.0363	0	50000	2.2548 E-11	3.554	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
5	BROADBAND LOAD -F-	2.4 mm female broadband load	2.4 mm	FEMALE	FIXED	OFF	OFF	0	50000	0.00E+00	0.0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
2.4 mm	2.4 mm female	FEMALE	COAX	0	50000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	6							
SB	7							
SC	5							
FORWARD_THRU								
FORWARD_MATCH								
REVERSE_THRU								
REVERSE_MATCH								
ISOLATION	5							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

85564A 2.4 mm (m) 4-in-1 Calibration Kit

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
2	OPEN -M-	2.4 mm male open	2.4 mm	MALE	29.722	165.78	-3.5386	0.071	0	50000	2.0837 E-11	3.23	50

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -M-	2.4 mm male short	2.4 mm	MALE	2.1636	-146.35	4.0443	-0.0363	0	44000	2.2548 E-11	3.554	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	LOAD -M-	2.4 mm male load	2.4 mm	MALE	FIXED	OFF	OFF	0	50000	0.00E+00	0.0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
2.4 mm	2.4 mm male	MALE	COAX	0	50000	0

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	2							
SB	1							
SC	3							
FORWARD_THRU								
FORWARD_MATCH								
REVERSE_THRU								
REVERSE_MATCH								
ISOLATION	3							

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

Maury 8650S TNC Broadband Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	SHORT -F-	8615A Female Short	TNC	FEMALE	0	0	0	0	0	18000	6.0208 E-11	0.7	50
2	SHORT -M-	8615B Male Short	TNC	MALE	0	0	0	0	0	18000	8.4292 E-11	0.7	50

Std. No.	Label	Description	Connector	Sex	C0 F(e-15)	C1 F(e-27)/Hz	C2 F(e-36)/Hz^2	C3 F(e-45)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
3	OPEN -F-	8609B Female Open	TNC	FEMALE	79	0	40	0	0	18000	5.6086 E-11	0.7	50
4	OPEN -M-	8610B Male Open	TNC	MALE	79	0	40	0	0	18000	8.0169 E-11	0.7	50

Std. No.	Label	Description	Connector	Sex	Fixed/Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
5	BROADBAND LOAD -F-	Female Broadband Load	TNC	FEMALE	FIXED	OFF	OFF	0	18000	0.00E+00	0	50
6	BROADBAND LOAD -M-	Male Broadband Load	TNC	MALE	FIXED	OFF	OFF	0	18000	0.00E+00	0	50
7	LOWBAND LOAD -F-	Female Broadband Load	TNC	FEMALE	FIXED	OFF	OFF	0	2001	0.00E+00	0	50
8	LOWBAND LOAD -M-	Male Broadband Load	TNC	MALE	FIXED	OFF	OFF	0	2001	0.00E+00	0	50

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
9	THRU	Insertable thru standard	TNC	FEMALE	TNC	MALE	0	999000	0.00E+00	0	50

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
TNC	TNC male	MALE	COAX	0	18000	0
TNC	TNC female	FEMALE	COAX	0	18000	0

Maury 8650S TNC Broadband Calibration Kit (continued)

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
SA	3	4						
SB	1	2						
SC	5	6	7	8				
FORWARD_MATCH	9							
FORWARD_THRU	9							
REVERSE_MATCH	9							
REVERSE_THRU	9							
ISOLATION	5	6	7	8				

Calibration Reference Z0 = SYSTEM Z0

Test Port Reference Plane = THRU STANDARD

X11644A X-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	X-band short	X-band waveguide	NONE	0	0	0	0	6555	13111	0.00E+00	0	1
5	Short Offset	X-band 1/4 offset short	X-band waveguide	NONE	0	0	0	0	6555	13111	3.26332 E-11	0.798	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	X-band offset load	X-band waveguide	NONE	FIXED	OFF	ON	6555	13111	0.00E+00	0	1
2	Fixed Load	X-band fixed load	X-band waveguide	NONE	FIXED	OFF	OFF	6555	13111	0.00E+00	0	1
3	Sliding Load	X-band sliding load	X-band waveguide	NONE	SLIDING	OFF	OFF	6555	13111	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	X-band Thru	X-band waveguide	NONE	X-band waveguide	NONE	6555	13111	0.00E+00	0	1
7	1/4 Line	X-band 1/4 wavelength line	X-band waveguide	NONE	X-band waveguide	NONE	6555	13111	3.26332E-11	0.798	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
X-band waveguide	X-band waveguide	NONE	WAVEGUIDE	6555	13111	6555

X11644A X-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

P11644A P-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	P-band short	P-band waveguide	NONE	0	0	0	0	9485	18970	0.00E+00	0	1
5	Offset Short	P-band 1/4 offset short	P-band waveguide	NONE	0	0	0	0	9485	18970	2.16887 E-11	1.235	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	P-band offset load	P-band waveguide	NONE	FIXED	OFF	ON	9485	18970	0.00E+00	0	1
2	Fixed Load	P-band fixed load	P-band waveguide	NONE	FIXED	OFF	OFF	9485	18970	0.00E+00	0	1
3	Sliding Load	P-band sliding load	P-band waveguide	NONE	SLIDING	OFF	OFF	9485	18970	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	P-band Thru	P-band waveguide	NONE	P-band waveguide	NONE	9485	18970	0.00E+00	0	1
7	1/4 Line	P-band 1/4 wavelength line	P-band waveguide	NONE	P-band waveguide	NONE	9485	18970	2.16887E-11	1.235	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
P-band waveguide	P-band waveguide	NONE	WAVEGUIDE	9485	18970	9485

P11644A P-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

K11644A K-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	K-band short	K-band waveguide	NONE	0	0	0	0	14047	28094	0.00E+00	0	1
5	Offset Short	K-band 1/4 offset short	K-band waveguide	NONE	0	0	0	0	14047	28094	1.502E-11	2.75	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	K-band offset load	K-band waveguide	NONE	FIXED	OFF	ON	14047	28094	0.00E+00	0	1
2	Fixed Load	K-band fixed load	K-band waveguide	NONE	FIXED	OFF	OFF	14047	28094	0.00E+00	0	1
3	Sliding Load	K-band sliding load	K-band waveguide	NONE	SLIDING	OFF	OFF	14047	28094	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	K-band Thru	K-band waveguide	NONE	K-band waveguide	NONE	14047	28094	0.00E+00	0	1
7	1/4 Line	K-band 1/4 wavelength line	K-band waveguide	NONE	K-band waveguide	NONE	14047	28094	1.502E-11	2.75	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
K-band waveguide	K-band waveguide	NONE	WAVEGUIDE	14047	28094	14047

K11644A K-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

R11644A R-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	R-band short	R-band waveguide	NONE	0	0	0	0	21071	42142	0.00E+00	0	1
5	Offset Short	R-band 1/4 offset short	R-band waveguide	NONE	0	0	0	0	21071	42142	1.00702E-11	9	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	R-band offset load	R-band waveguide	NONE	FIXED	OFF	ON	21071	42142	0.00E+00	0	1
2	Fixed Load	R-band fixed load	R-band waveguide	NONE	FIXED	OFF	OFF	21071	42142	0.00E+00	0	1
3	Sliding Load	R-band sliding load	R-band waveguide	NONE	FIXED	OFF	OFF	21071	42142	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	R-band Thru	R-band waveguide	NONE	R-band waveguide	NONE	21071	42142	0.00E+00	0	1
7	1/4 Line	R-band 1/4 wavelength line	R-band waveguide	NONE	R-band waveguide	NONE	21071	42142	1.00702E-11	9	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
R-band waveguide	R-band waveguide	NONE	WAVEGUIDE	21071	42142	21071

R11644A R-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

Q11644A Q-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	Q-band short	Q-band waveguide	NONE	0	0	0	0	26338	52676	0.00E+00	0	1
5	Offset Short	Q-band 1/4 offset short	Q-band waveguide	NONE	0	0	0	0	26338	52676	8.0815E-12	12.77	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	Q-band offset load	Q-band waveguide	NONE	FIXED	OFF	ON	26338	52676	0.00E+00	0	1
2	Fixed Load	Q-band fixed load	Q-band waveguide	NONE	SLIDING	OFF	OFF	26338	52676	0.00E+00	0	1
3	Sliding Load	Q-band sliding load	Q-band waveguide	NONE	FIXED	OFF	OFF	26338	52676	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	Q-band Thru	Q-band waveguide	NONE	Q-band waveguide	NONE	26338	52676	0.00E+00	0	1
7	1/4 Line	Q-band 1/4 wavelength line	Q-band waveguide	NONE	Q-band waveguide	NONE	26338	52676	0.00E+00	0	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
Q-band waveguide	Q-band waveguide	NONE	WAVEGUIDE	26338	52676	26338

Q11644A Q-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

U11644A U-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	U-band short	U-band waveguide	NONE	0	0	0	0	31386	62772	0.00E+00	0	1
5	Offset Short	U-band 1/4 offset short	U-band waveguide	NONE	0	0	0	0	31386	62772	6.6434E-12	16.65	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	U-band offset load	U-band waveguide	NONE	FIXED	OFF	ON	31386	62772	0.00E+00	0	1
2	Fixed Load	U-band fixed load	U-band waveguide	NONE	FIXED	OFF	OFF	31386	62772	0.00E+00	0	1
3	Sliding Load	U-band sliding load	U-band waveguide	NONE	SLIDING	OFF	OFF	31386	62772	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	U-band Thru	U-band waveguide	NONE	U-band waveguide	NONE	31386	62772	0.00E+00	0	1
7	1/4 Line	U-band 1/4 wavelength line	U-band waveguide	NONE	U-band waveguide	NONE	31386	62772	6.6434E-12	16.65	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
U-band waveguide	U-band waveguide	NONE	WAVEGUIDE	31386	62772	31386

U11644A U-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

V11644A V-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	V-band short	V-band waveguide	NONE	0	0	0	0	39873	79745	0.00E+00	0	1
5	Offset Short	V-band 1/4 offset short	V-band waveguide	NONE	0	0	0	0	39873	79745	5.3755E-12	24.226	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	V-band offset load	V-band waveguide	NONE	FIXED	OFF	ON	39873	79745	0.00E+00	0	1
2	Fixed Load	V-band fixed load	V-band waveguide	NONE	FIXED	OFF	OFF	39873	79745	0.00E+00	0	1
3	Sliding Load	V-band sliding load	V-band waveguide	NONE	FIXED	OFF	OFF	39873	79745	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	V-band Thru	V-band waveguide	NONE	V-band waveguide	NONE	39873	79745	0.00E+00	0	1
7	1/4 Line	V-band 1/4 wavelength line	V-band waveguide	NONE	V-band waveguide	NONE	39873	79745	5.3755E-12	24.226	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
V-band waveguide	V-band waveguide	NONE	WAVEGUIDE	39873	79745	39873

V11644A V-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD

W11644A W-Band Waveguide SOLT/TRL Calibration Kit

Std. No.	Label	Description	Connector	Sex	L0 H(e-12)	L1 H(e-24)/Hz	L2 H(e-33)/Hz^2	L3 H(e-42)/Hz^3	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
4	Short	W-band short	W-band waveguide	NONE	0	0	0	0	59024	118050	0.00E+00	0	1
5	Offset Short	W-band 1/4 offset short	W-band waveguide	NONE	0	0	0	0	59024	118050	3.6203E-12	64.85	1

Std. No.	Label	Description	Connector	Sex	Fixed/ Sliding	Arbitrary Impedance	Offset Load	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
1	Offset Load	W-band offset load	W-band waveguide	NONE	FIXED	OFF	ON	59024	118050	0.00E+00	0	1
2	Fixed Load	W-band fixed load	W-band waveguide	NONE	FIXED	OFF	OFF	59024	118050	0.00E+00	0	1
3	Sliding Load	W-band sliding load	W-band waveguide	NONE	FIXED	OFF	OFF	59024	118050	0.00E+00	0	1

Std. No.	Label	Description	Connector Port1	Sex Port1	Connector Port2	Sex Port2	F min (MHz)	F max (MHz)	Delay (Sec)	Loss (Gohm/Sec)	Z0 (Ohm)
6	Thru	W-band Thru	V-band waveguide	NONE	W-band waveguide	NONE	59024	118050	0.00E+00	0	1
7	1/4 Line	W-band 1/4 wavelength line	V-band waveguide	NONE	W-band waveguide	NONE	59024	118050	3.6203E-12	64.85	1

Connector	Description	Sex	Media	Min Freq (MHz)	Max Freq (MHz)	Cutoff Freq (MHz)
W-band waveguide	W-band waveguide	NONE	WAVEGUIDE	59024	118050	59024

W11644A W-Band Waveguide SOLT/TRL Calibration Kit

SOLT Class Assignments

Class Label	A	B	C	D	E	F	G	H
S11A	4							
S11B	5							
S11C	1	2	3					
S22A	4							
S22B	5							
S22C	1	2	3					
FWD MATCH	6	7						
FWD TRAN	6	7						
REV MATCH	6	7						
REV TRAN	6	7						
ISOLATION	1	2	3					

TRL Class Assignments

Class Label	A	B	C	D	E	F
TRL THRU	6					
TRL REFLECT	4					
TRL LINE	7					
FWD MATCH	3					
REV MATCH	3					
ISOLATION	1	2	3			

Calibration Reference Z0 = LINE Z0

Test Port Reference Plane = THRU STANDARD