

AP5022A Analog Signal Generator

Introduction

This configuration guide contains information to help you configure your AP5022A analog signal generator to meet your requirements. Ordering optional capabilities at the time of purchase provides the lowest overall cost of ownership.



Select Hardware Options

To configure the AP5022A, start by selecting the desired number of channels. Then, add system features, which are ordered once per instrument. Finally, add channel features, which are ordered once per channel. Detailed information is provided below.

Select Number of Channels

Configuration	Required Options	Descriptions	Additional Information
One channel	AP5022A-001	Add channel one	Required for all configurations
Two channels	AP5022A-001	Add channel one	
	AP5022A-002	Add channel two	
Three channels	AP5022A-001	Add channel one	
	AP5022A-002	Add channel two	
	AP5022A-003	Add channel three	
Four channels	AP5022A-001	Add channel one	
	AP5022A-002	Add channel two	
	AP5022A-003	Add channel three	
	AP5022A-004	Add channel four	

Select System Features (Ordered Once per Instrument)

Option	Description	Additional Information
AP5022A-1ER	Flexible reference input	
AP5022A-GPB	GPIB interface	

Select Channel Features (Ordered Once per Channel)

Option	Description	Additional Information
Select Frequency Range (One Required; Will be Duplicated on All Channels)		
AP5022A-512	Frequency range, 9 kHz to 12.75 GHz	SMA (f) RF output connector
AP5022A-520	Frequency range, 9 kHz to 20 GHz	SMA (f) RF output connector
AP5022A-540	Frequency range, 9 kHz to 40 GHz	2.92 mm (f) RF output connector
AP5022A-554	Frequency range, 9 kHz to 54 GHz	1.85 mm (f) RF output connector
Select Close in Phase Noise and Long-Term Frequency Stability Performance Level (One Required; Will be Duplicated on All Channels)		
AP5022A-LN1	Ultra-low close in phase noise and long-term frequency stability	
AP5022A-LN2	Enhanced ultra-low close in phase noise and long-term frequency stability	
Select Mechanical Attenuator (Optionally Choose One; Will be Duplicated on All Channels)		
AP5022A-1E1	Mechanical step attenuator for 12.75 GHz, 20 GHz, or 40 GHz frequency range	Requires option 512, 520, or 540
AP5022A-2E1	Mechanical step attenuator for 54 GHz frequency range	Requires option 554
Select Fast Switching (Optional; Will be Duplicated on All Channels)		
AP5022A-UNZ	Fast switching	
Select Analog Modulation (Optionally Choose Any; Will be Duplicated on All Channels)		
AP5022A-UNT	AM, FM, phase modulation	
AP5022A-PMR	Pulse modulation	Incompatible with option PME
AP5022A_PME	Limited pulse modulation	Incompatible with option PMR
Select Calibration Documentation (Optional; Will be Duplicated on All Channels)		
AP5022A-UK6	Commercial calibration certificate with test data	

Recommended Services

Model	Description
R-50C-011-3	Keysight Calibration - Return-to-Keysight - 3 years
R-50C-011-5	Keysight Calibration - Return-to-Keysight - 5 years

Related Literature

[AP5022A Analog Signal Generator Product Page](#)

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