

# AP5031A

## Analog Signal Generator

### Introduction

This configuration guide contains information to help you configure your AP5031A 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

| Option                                                                                                | Description                                                                 | Additional Information                                   |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Select Frequency Range (One Required)</b>                                                          |                                                                             |                                                          |
| AP5031A-512                                                                                           | Frequency range, 1 kHz to 12.75 GHz                                         | N-type (f) RF output connector                           |
| AP5031A-520                                                                                           | Frequency range, 1 kHz to 20 GHz                                            | 2.92 mm (m) RF output connector                          |
| AP5031A-540                                                                                           | Frequency range, 1 kHz to 40 GHz                                            | 2.92 mm (m) RF output connector                          |
| AP5031A-551                                                                                           | Frequency range, 1 kHz to 51 GHz                                            | 1.85 mm (m) RF output connector                          |
| AP5031A-590                                                                                           | Frequency range, 1 kHz to 90 GHz                                            | 1 mm NMD (m) RF output connector                         |
| <b>Select Close in Phase Noise and Long-Term Frequency Stability Performance Level (One Required)</b> |                                                                             |                                                          |
| AP5031A-LN1                                                                                           | Ultra-low close in phase noise and long-term frequency stability            |                                                          |
| AP5031A-LN2                                                                                           | Enhanced ultra-low close in phase noise and long-term frequency stability   |                                                          |
| <b>Select Mechanical Attenuator (Optionally Choose One)</b>                                           |                                                                             |                                                          |
| AP5031A-1E1                                                                                           | Mechanical step attenuator for 12.75 GHz, 20 GHz, or 40 GHz frequency range | Requires Option 512, 520, or 540. Not applicable to 590. |
| AP5031A-2E1                                                                                           | Mechanical step attenuator for 51 GHz frequency range                       | Requires Option 551. Not applicable to 590.              |
| <b>Select Fast Switching (Optional)</b>                                                               |                                                                             |                                                          |
| AP5031A-UNZ                                                                                           | Fast switching                                                              |                                                          |
| <b>Select Analog Modulation (Optionally Choose Any)</b>                                               |                                                                             |                                                          |
| AP5031A-UNT                                                                                           | AM, FM, phase modulation                                                    |                                                          |
| AP5031A-PMR                                                                                           | Pulse modulation                                                            |                                                          |
| <b>Select General Performance Features (Optionally Choose Any)</b>                                    |                                                                             |                                                          |
| AP5031A-1ER                                                                                           | Flexible reference input                                                    |                                                          |
| AP5031A-GPB                                                                                           | GPIB interface                                                              |                                                          |
| <b>Select Calibration Documentation (Optional)</b>                                                    |                                                                             |                                                          |

## Select Accessories

| Option | Description              |
|--------|--------------------------|
| Y9616A | Rackmount Kit, 2U height |
| Y9613A | Portable Bag             |

## 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 |
| AP5031A-UK6 | Commercial calibration certificate with test data   |

## Related Literature

[AP5031A Analog Signal Generator Product Page](#)