

ROHDE & SCHWARZ

SMIQ03

The Rohde & Schwarz SMIQ03 is a high-performance vector signal generator from the SMIQ family, covering a frequency range from 300 kHz to 3.3 GHz. Designed for modern mobile communication, broadcasting, and general-purpose RF testing, it features superb spectral purity, high frequency resolution, and comprehensive analog and vector modulation capabilities. Its modular architecture supports internal baseband generation, fading simulation, and various digital standards like W-CDMA and GSM.

SPECIFICATIONS

Frequency

Minimum Frequency	300 kHz Hz
Maximum Frequency	3.3 GHz Hz
Frequency Resolution	0.1 Hz

Output

Maximum Output Power	+13 dBm dBm
Output Power Range	-140 dBm to +13 dBm

Modulation

Modulation	AM, FM, Phase, Pulse, I/Q (Vector)
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Frequency & RF Output Specifications

Output Impedance	50 Ohm
Output Level Resolution	0.1 dB

Inputs, Outputs & Connectivity

RF Output Connector	N female
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Amplitude Modulation

AM Depth Range	0% to 100%
AM Resolution	0.1%

I/Q Modulation

I/Q Modulation Input Impedance	50 Ω
I/Q Input Level for Full Scale	$\sqrt{I^2 + Q^2} = 0.5 \text{ V}$

Overload Protection

Maximum Reverse Power Protection	50 W (up to 1 GHz), 25 W (1 GHz to 3.3 GHz)
Maximum DC Overvoltage Protection	35 V

TECHNOLOGY

RF Vector Signal Generator

APPLICATIONS

Mobile phone design, base station test, and wideband CDMA development

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.