
Synthesized Signal Generator

QF1480C



Description :

Scientech offers a wide selection of high-performance general purpose synthesized signal generator with versatile modulation capability. Four modulation modes are offered: AM / FM / Φ M / PM (QF1480 only have two modes of AM and FM). These instruments are suitable for wide variety applications ranging from Broadcasting TV, communication to radar , navigation and electron war etc .

These products are designed for manual as well as ATE applications and ideally suited for various test during product development. They are also the great help for manufacturing of RF communication products such as cellular radio, or cordless phones. Excellent pulse modulation specification (rise/fall time < 15ns and 80 dB on/off ratio) is suited especially for electron war such as radar / electron against, etc.

Remote programming via the standard GPIB Bus. They can store and recall for 50/100 complete front panel setting-up with internal non-volatile memory. built-in Microprocessor guarantees their advanced technical performance and use's convenience.

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Main specifications

Model	QF1471	QF1480 B / C	QF1481A
Frequency Range: Resolution: Accuracy: Switching speed: <i>INT</i> ref. oscillator Aging rate: Accuracy	3~ 520MHz 50Hz $< \pm 50 \times 10^{-6}$ $< 70\text{ms}$ 10MHz $10 \times 10^{-6} / 15\text{min.}$ $< \pm 5 \times 10^{-6}$	0.01 ~ 1050MHz 10Hz $< \pm 5 \times 10^{-6}$ $< 70\text{ms}$ 10MHz $< \pm 5 \times 10^{-7} / \text{mon.}$ $< \pm 5 \times 10^{-6}$	0.1 ~ 2100MHz 10 ~ 20Hz $< \pm 5 \times 10^{-7}$ $< 70\text{ms}$ 10MHz $< 2 \times 10^{-8} / \text{day.}$ $< \pm 5 \times 10^{-7}$
Output Range: Resolution Accuracy: R . P . P: S . W . R: Impedance: RF leakage:	-127 ~ +13dBm 0.1dB $\pm 2.5\text{dB}$ yes (25W 25V _{DC}) $\leq 1.6:1$ 50Ω (N) $< 1\mu\text{V}$	-127~ +13dBm 0.1dB $\pm 1.5\text{dB}$ yes (50W 25V _{DC}) $\leq 1.5:1$ 50Ω (N) $< 3\mu\text{V}$	-137 ~ +13dBm ($f > 1050\text{MHz}$) -137 ~ +16dBm ($f < 1049\text{MHz}$) 0.1dB $< 1.5\text{dB}$ ($f > 1\text{MHz}$) $< 2\text{dB}$ ($f < 0.9999\text{MHz}$) yes (25W 25V _{DC}) $\leq 1.5:1$ 50Ω (N) $< 3\mu\text{V}$
Spectral purity Harmonics: Non-harmonics Sub-harmonics SSB phase noise Residual FM Residual AM	$\leq -30\text{dBc}$ $\leq -35\text{dBc}$ $\leq 55\text{Hz}$ $\leq 0.2\%$	$\leq -30\text{dBc}$ $\leq -60\text{dBc}$ $< -122\text{dBc/Hz}$ $< 12\text{Hz}$ (BW 0.3 – 3KHz) $< -60\text{dBc}$	$\leq -30\text{dBc}$ ($f > 1\text{MHz}$) $\leq -60\text{dBc}$ (offset > 10KHz) $< -45\text{dB}$ $< -122\text{dBc / Hz}$ $< 6\text{Hz}$ (BW 0.3 ~ 3KHz) $< -60\text{dBc}$ (BW 0.05 ~ 15KHz)
AM modulation Depth: Resolution: Accuracy: Distortion: Incidental FM <i>INT</i> modulation: fm <i>EXT</i> modulation: fm	0 ~ 99% ($\leq +7\text{dBm}$) 0.1% (AM < 10%) 1% (AM > 10%) 8% (at 1KHz) $\leq 2\%$ (at 1KHz) $\leq 300\text{Hz}$ 1KHz or 400Hz 20Hz ~ 20KHz	0 ~ 99% (step 1%) 1% $< 5\%$ (AM < 90%) $< 1.5\%$ (AM < 30%) 0.3fm 1KHz or 400Hz 20Hz ~ 30KHz	0 ~ 99% (step 1%) 1% $\pm 2\% + 4\%$ of setting 1.5% (AM < 30%) 0.3fm ~ 0.6fm 1KHz or 400Hz 20Hz ~ 50KHz

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