

WR-G527e Detailed Technical Specifications

WR-G527e/TM Tuner Module

Input frequency range	0.01 - 30 MHz (direct input section) 20-3000 MHz (heterodyne section)
Tuning resolution	10 Hz
Output frequency	70 MHz
Output bandwidth	22 MHz
Gain	30 dB typ.
Noise figure	10 dB typ. @ 100 MHz
Internal spuri	Typ. less than -107 dBm of equivalent antenna input level*
IF rejection	>60 dB
Maximum input level	+10 dBm
Attenuation control	0-30 dB switchable front-end attenuator in 2 dB steps, 20 dB switchable attenuator in IF path
IP3	0 dBm typ. @ 10 kHz spacing (preamp off)
Input impedance	50 ohm (SMA connector) for each channel
Output impedance	50 ohm (SMA connector) for each channel
Amplitude ripple	3 dB typ.
Phase ripple	3 degrees typ.
Channel-to-channel isolation	>80 dB
Operating voltage	12 V DC \pm 5%
Power consumption	8 W typ.
Dimensions	150 x 90 x 30 mm (5.9" x 3.5" x 1.2")
Weight	330 g (11.6 oz)
Operating temperature	-10° to +60° C
Humidity	20-90% non-condensing

WR-G527e/RMF Reference Oscillator and Distribution Module

Total oscillator phase noise	-115 dBc/Hz @ 10 kHz
Tuning speed	5 ms typ.
Settling speed	0.8 ms / MHz typ.
Frequency stability	0.01 ppm
Operating voltage	12 V DC \pm 5%
Power consumption	12 W typ.
Dimensions	150 x 90 x 45 mm (5.9" x 3.5" x 1.8")
Weight	660 g (23.3 oz)
Operating temperature	-10° to +60° C
Humidity	20-90% non-condensing

** As a result of the heterodyne process, a small number of spuri exist on certain frequencies (approx 6 frequencies in the entire 20-3000 MHz range), which are above the typical -107 dBm level. No spuri exceed the -90 dBm level.*

Due to continuous product improvement, specifications are subject to change without notice.

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