

5U1000 10U1000 1U1000 2.5U1000 25U1000 50U1000



1 watt CW, 10 kHz-1000 MHz

1 watt min.

Input For Rated Output 1.0 milliwatt max. Power Output @ 3dB compression Typ. 1.5 watts / Min. 1 watt Power Output @ 1dB compression Typ. 1.5 watts / Min. 1 watt Flatness ± 0.8 dB typ., ± 1.0 dB max. 10 kHz - 1000 MHz instantaneously Frequency Response 30 dB min. Gain (at max. setting) 20 dB min. Gain Adjustment (continuous range) 50 ohms, VSWR 2.0:1 max. Input Impedance Output Impedance 50 ohms, nominal Mismatch Tolerance³

100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability

Rated Output Power

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 42 dBm typ. Noise Figure 8 dB max., 6 dB typ. Harmonic Distortion

Minus 20 dBc max. at 1 watt, minus 30dBc type Minus 73 dBc typ. Spurious

Primary Power (selected automatically)

90 - 264 VAC 50/60 Hz, 50 watts

Connectors RF Input

Type N female on front panel RF Output Type N female on front panel Cooling Forced air (self contained fans) Weight 4.5 kg (11 lb) Size (WxHxD)

26.0 x 11.4 x 28.2 cm / 10.25 x 4.5 x 11.1 in Export classification





2.5 watts CW, 10 kHz-1000 MHz

Rated Output Power 2.5 watts min. Input For Rated Output 1.0 milliwatt max. Power Output @ 3dB compression Typ. 3.0 watts / Min. 2.5 watts Power Output @ 1dB compression Typ. 2.5 watts / Min. 2 watts ± 0.8 dB typ., ± 1.0 dB max. 10 kHz - 1000 MHz instantaneously Frequency Response Gain (at max. setting) 33 dB min. 20 dB min. Gain Adjustment (continuous range) 50 ohms, VSWR 2.0:1 max. Input Impedance Output Impedance 50 ohms, nominal Mismatch Tolerance* 100% of rated power without foldback. Will operate without

damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 45 dBm typ. Noise Figure 8 dB max., 6 dB typ. Minus 20 dBc max. at 2 watts Harmonic Distortion Minus 73 dBc typ. Spurious Primary Power (selected automatically)

90 - 264 VAC 50/60 Hz, 50 watts

Connectors

Type N female on front panel RF Input RF Output Type N female on front panel Cooling Forced air (self contained fans) Weight 4.5 kg (11 lb) Size (WxHxD)

FAR99

26.0 x 11.4 x 28.2 cm / 10.25 x 4.5 x 11.1 in Export classification EAR99



5 watts CW, 10 kHz-1000 MHz

Rated Output Power 5 watts min. Input For Rated Output 1.0 milliwatt max Power Output @ 3dB compression Typ. 5.0 watts / Min. 4.5 watts Power Output @ 1dB compression

Typ. 4 watts / Min. 3.5 watts ± 1.3 dB typ., ± 1.5 dB max. 10 kHz - 1000 MHz instantaneously Frequency Response Gain (at max. setting) 37 dB min. Gain Adjustment (continuous range) 20 dB min. 50 ohms, VSWR 2.0:1 max. Input Impedance 50 ohms, nominal

Output Impedance Mismatch Tolerance*

100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation

appearing on the input signal.

Third Order Intercept Point 46 dBm tvp Noise Figure 8 dB max., 6 dB typ. Minus 20 dBc max, at 3.5 watts Harmonic Distortion Spurious Minus 73 dBc typ.

Primary Power (selected automatically) 90 - 264 VAC

50/60 Hz, 70 watts

Connectors

Type N female on front panel RF Input RF Output Type N female on front panel Cooling Forced air (self contained fans) 4.5 kg (11 lb) Weight Size (WxHxD)

26.0 x 11.4 x 28.2 cm / 10.25 x 4.5 x 11.1 in

EAR99 Export classification



10 watts CW, 10 kHz-1000 MHz

15 watts typ., 10 watts min. Rated Output Power Input For Rated Output 1.0 milliwatt max. Power Output @ 3dB compression Typ. 15 watts / Min. 10 watts

Power Output @ 1dB compression Typ. 12 watts / Min. 10 watts

Flatness ± 1.0 dB typ., ± 1.5 dB max. 10 kHz - 1000 MHz instantaneously Frequency Response 40 dB min. Gain (at max. setting) 20 dB min. Gain Adjustment (continuous range) 50 ohms, VSWR 2.0:1 max. Input Impedance Output Impedance 50 ohms, nominal Mismatch Tolerance*

100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 50 dBm typ. Noise Figure 8 dB typ. Harmonic Distortion Minus 20 dBc max, at 10 watts Minus 73 dBc typ. Spurious

Primary Power (Universal: selected automatically) 100 - 240 VAC 50/60 Hz, 150 watts

Connectors

RF Input Type N female RF Output Type N female Remotes Package IEEE-488 24-pin female

RS-232 9-nin subminiature Ď (female). ST Conn Tx and Rx RS-232 Fiber optic USB 2.0 Type B Ethernet ŘI-45 Safety Interlock 15-pin subminiature D Forced air (self contained fans) Cooling

Weight With Cabinet 17.7 kg (41 lb) Without Cabine 9.5 kg (23 lb)

Size (WxHxD) With Cabinet 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in Without Cabinet

Export classification



25 watts CW, 10 kHz-1000 MHz

Rated Output Power 30 watts typ., 25 watts min. Input For Rated Output 1.0 milliwatt max. Power Output @ 3dB compression Typ. 30 watts / Min. 25 watts Power Output @ 1dB compression Typ. 25 watts / Min. 20 watts ± 1.0 dB typ., ± 1.5 dB max.

10 kHz - 1000 MHz instantaneously Frequency Response Gain (at max. setting) 44 dB min. Gain Adjustment (continuous range) 20 dB min. Input Impedance 50 ohms, VSWR 2.0:1 max.

Output Impedance Mismatch Tolerance*

100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 52 dBm typ. Noise Figure 8 dB typ. Minus 20 dBc max, at 20 watts Harmonic Distortion Minus 73 dBc typ. Spurious

Primary Power (Universal: selected automatically) 100 - 240 VAC

50/60 Hz, 200 watts

Connectors Type N female RF Input RF Output Type N female Remotes Package

IEEE-488 24-pin female RS-232 9-pin subminiature D (female) \$T Conn Tx and Rx RS-232 Fiber optic USB 2.0 Ethernet RL45 15-pin subminiature D Safety Interlock Forced air (self contained fans) Cooling

Weight With Cabinet 17.7 kg (41 lb) Without Cabinet 9.5 kg (23 lb) Size (WxHxD)

With Cabinet 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in Without Cabinet Export classification EAR99

50 watts CW, 10 kHz-1000 MHz

70 watts typ., 50 watts min

Input For Rated Output 1.0 milliwatt max Power Output @ 3dB compression Typ. 70 watts / Min. 50 watts Power Output @ 1dB compression Typ. 60 watts / Min. 45 watts ± 1.0 dB typ., ± 1.5 dB max Flatness

10 kHz - 1000 MHz instantaneously Frequency Response Gain (at max. setting) 47 dB min. Gain Adjustment (continuous range) 20 dB min. Input Impedance 50 ohms, VSWR 2.0:1 max. 50 ohms, nominal Output Impedance 50 ohms, nominal

Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source

and load impedance. Modulation Capability

Rated Output Power

Will faithfully reproduce AM, FM, or pulse modulation

appearing on the input signal. Third Order Intercept Point

57 dBm typ. Noise Figure 8 dB typ. Minus 2.0 dBc max, at 45 watts Harmonic Distortion Minus 73 dBc typ. Spurious Primary Power (Universal; selected automatically)

100 - 240 VAC

50/60 Hz, 250 watts

Connectors RF Input

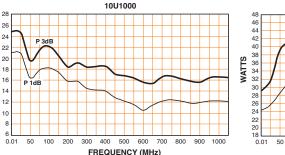
Type N female RF Output Type N female Remotes Package IEEE-488 24-pin female

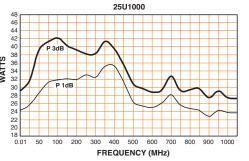
RS-232 9-pin subminiature D (female) ST Conn Tx and Rx RS-232 Fiber ontic USB 2.0 Type B Ethernet RI-45 Safety Interlock 15-pin subminiature D Forced air (self contained fans) Cooling

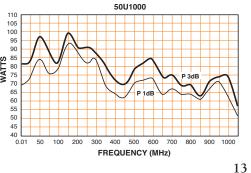
Weight With Cahinet 17.7 kg (41 lb) Without Cabinet

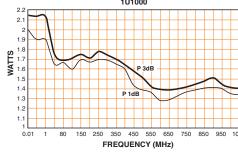
9.5 kg (23 lb) Size (WxHxD) With Cabinet 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in

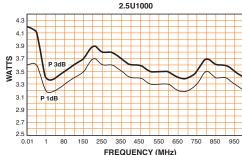
48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in Without Cabinet Export classification

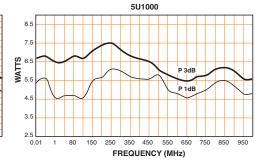












100U1000



100 watts CW, 100 kHz to 1000 MHz 250 watts CW, 100 kHz to 1000 MHz

120 watts typ., 100 watts min. Rated Output Power Input For Rated Output Power Output @ 3dB compression Typ. 120 watts / Min. 100 watts

Power Output @ 1dB compression Typ. 100 watts / Min. 85 watts

 ± 1.5 dB typ., ± 2.0 dB max. 100 kHz - 1000 MHz instantaneously Frequency Response 50 dB min. Gain (at max. setting) 20 dB min. Gain Adjustment (continuous range) 50 ohms, VSWR 2.0:1 max. Input Impedance Output Impedance 50 ohms, nominal Mismatch Tolerance*

100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal

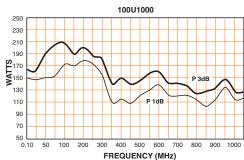
Third Order Intercept Point 60 dBm typ. Noise Figure 8.5 dB typ. Minus 20 dBc max. at 100 watts Harmonic Distortion Minus 30 dBc typical at 100 watts

Minus 73 dBc typ. Spurious Primary Power (Universal; selected automatically)

100 - 240 VAC

50/60 Hz, 700 watts Connectors RF Input Type N female Type N female RF Output Remotes Package IEEE-488 24-pin female RS-232 9-pin subminiature Ď (female) Fiber optic ST Conn Tx and Rx RS-232 USB 2.0 Ethernet 15-pin subminiature D Safety Interlock Forced air (self contained fans) Cooling Weight 35 kg (77 lb) 24 kg (52 lb) With Cabinet Without Cabinet Size (WxHxD)

50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in With Cabinet Without Cabinet 48.3 x 17.7 x 74.9 cm / 19 x 7.0 x 29.5 in Export classification



250U1000



Rated Output Power 0.1 - 650 MHz: 250 watts typ., 250 watts min. 225 watts typ., 200 watts min. 650 - 1000 MHz 1.0 milliwatt max. Input For Rated Output Power Output @ 3dB compression 265 watts typ., 240 watts min. 650 - 1000 MHz 215 watts typ., 190 watts min. Power Output @ 1dB compression 0.1 - 650 MHz

250 watts typ., 210 watts min. 200 watts typ., 175 watts min. 650 - 1000 MHz ± 1.5 dB typ., ± 2.0 dB max. 100 kHz - 1000 MHz instantaneously Frequency Response 54 dB min. Gain (at max, setting) Gain Adjustment (continuous range) 20 dB min. 50 ohms, VSWR 1.5:1 max. Input Impedance Output Impedance 50 ohms, nominal

Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal

Third Order Intercept Point Noise Figure 8.5 dB typ. Minus 20 dBc max. at 200 watts Harmonic Distortion Minus 30 dBc typical at 200 watts

Minus 73 dBc typ.

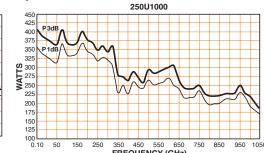
Primary Power 100 - 240 VAC 50/60 Hz, 1100 watts

Spurious

Connectors RF Input Type N female RF Output Type N female Remotes Package IFFF-488 24-pin female RS-232

9-pin subminiature D (female) ST Conn Tx and Rx RS-232 Fiber optic USB 2.0 Ethernet 15-pin subminiature D Safety Interlock Cooling Forced air (self contained fans) Weight 45 kg (99 lb) 34 kg (74 lb) With Cabinet Without Cabinet

Size (WxHxD) 50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in With Cabinet Without Cabinet 48.3 x 17.7 x 74.9 cm / 19 x 7.0 x 29.5 in Export classification



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