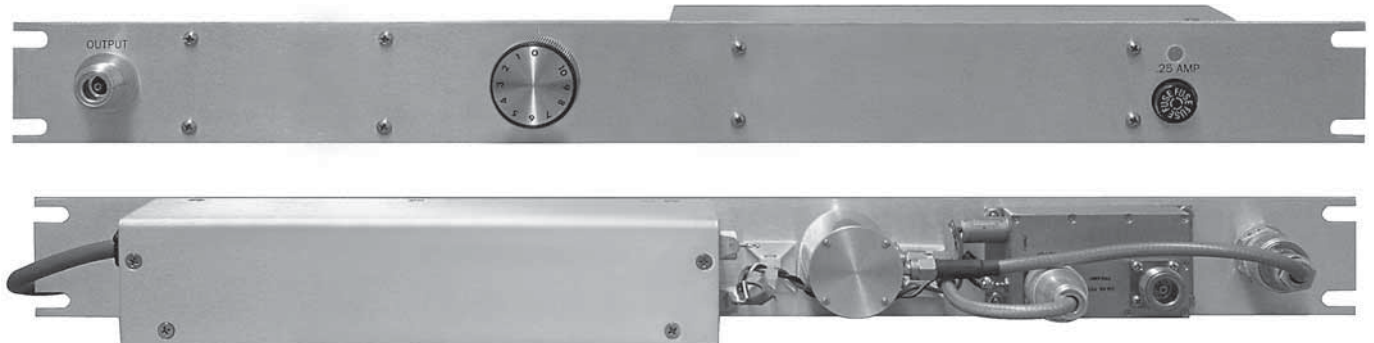


TWR1 SERIES RACK MOUNT PHEMT PREAMPLIFIERS



The TWR-1 Series of Rack Mount PHEMT Preamplifiers provide up to +18 dB of user-controllable gain in a receiver system. These preamps provide extra gain to compensate for loss of signal from tower extension, receiver filtering, or long cable runs. Each unit consists of a low-noise PHEMT preamplifier, a 10 dB rotary step attenuator, and a regulated switching power supply mounted on a 19-inch single

rack-unit aluminum panel. Primary input power is 120 or 220 VAC, and DC backup requires +11 to +15 VDC. The DC input is reverse polarity protected, and equipped with a high-pass filter to eliminate RFI. Standard gain is +1 to +11 dB. Any range between +1 to +11 and +8 to +18 dB may be specified, depending on frequency.

NOTE: These preamplifiers are for receiver use only. They are not designed to accept transmitter power levels.

MODEL	TWR1-150	TWR1-220	TWR1-450	TWR1-760	TWR1-860
Frequency range	132-174 MHz	200-250 MHz	400-512 MHz	763-824 MHz	806-960 MHz
Bandwidth (typ)	5 MHz	6 MHz	50 MHz	100 MHz	100 MHz
Noise figure (typ)	0.4 dB	0.5 dB	0.5 dB	0.7 dB	0.7 dB
Gain range (typ)	+1 to +11 dB +8 to +18 dB	+1 to +11 dB +8 to +18 dB	+1 to +11 dB +7 to +17 dB	+1 to +11 dB +4 to +14 dB	+1 to +11 dB +4 to +14 dB
COMMON SPECIFICATIONS					
Impedance / VSWR (typ)	50 ohms / 1.3:1				
1 db compression (typ)	+12 dBm				
3rd order intercept (typ)	+26 dBm				
Transient protection	40 kV / 1 μ s				
Temperature range	0°C to +40°C				
Power requirements	AC	120 VAC (std.) or 220 VAC (opt.)			
	DC	+11.5 to +15 VDC or +9 to +18 VDC			
Current drain (typ)	50 mA				
Dimensions (HWD) in. (cm)	1.75 x 19 x 5 (4.5 x 48.3 x 12.7)				
Connectors	N Female				
Net weight lb. (kg)	2.5 (1.1)				
Shipping weight lb. (kg)	3.5 (1.6)				