

TTPA-4544

TOWERTOP PREAMPLIFIER / PRESELECTOR

Telewave Integrated Tower-Top Preamplifier systems recover low-level signals from long or high loss transmission lines and optimize system performance. The Telewave system enables single or multi-window operation in the 450-512 MHz receiver bands.

The RF Preamplifier is fully redundant, using two amplifiers in a hybrid configuration. Any single transistor failure causes a 6 dB reduction in gain, but the amplifier continues to operate. This offers extremely high operational reliability. Very low loss input circuits provide the best possible noise figure. DC surge and reverse voltage protection is provided.

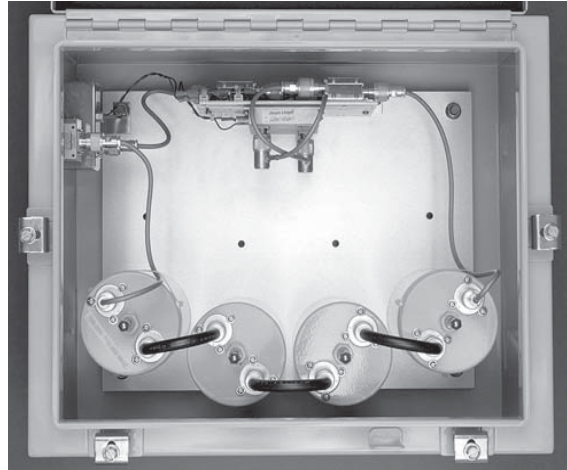
The preselector filter systems incorporate combine, discrete cavity and multi-window

technologies. Each filter is custom designed to operate in the most adverse antenna environment.

The base power supply provides DC coupling and decoupling to the transmission line and connection to the receiver distribution

system. DC current levels are adjusted and monitored with a built-in metering panel.

The enclosure is fully weather-sealed, compliant with NEMA 4.



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ELECTRICAL SPECIFICATIONS		
Frequency ranges (MHz)		455-460, 465-470, 470-512
System gain (single band)		17 dB
Noise figure (typ)		2.5 dB
3rd order intercept (typ)		+35 dB
Power requirements		115 VAC
VSWR		1.3:1
Lightning protection		Impulse suppressor (Polyphaser)
Temperature range		-40°C to +70°C
MECHANICAL SPECIFICATIONS		
Dimensions	Tower box (HWD) in. (cm)	20 x 16 x 11.5 (50.8 x 40.6 x 29.2)
	Base supply	19 x 3.5 x 7.25 (48.3 x 8.9 x 18.4)
Weight	Tower box lb. (kg)	39 (17.7)
	Base supply	4.7 (2.1)
Finish	Tower box	NEMA 4 - Gray polyester powder coat
	Base supply	Grained aluminum
Connectors		N Female