

RF-5845H-PP101

Digital Pre/Postselector

The digitally-tuned, high-performance RF-5845H-PP101 Pre/Postselector, is designed for operation in rugged tactical environments with the Falcon II® RF-5800H-MP and AN/PRC-150(C) systems.



Fully automatic operation through the host transceiver and rapid tuning capability make pre/postselector operation virtually transparent to the user. Built-In-Test-Equipment for status and diagnostic testing is fully integrated into the transceiver system.

The RF-5845H-PP is ruggedized to the same Falcon II MIL-STD radio specifications for temperature, shock,

vibration and submersible requirements, ensuring successful colocation in even the harshest environment.

The RF-5845-PP101 is designed to fit into standard RF-5800H series mounts and systems, saving costs and installation time. A bypass function and separate receive antenna port give this solution the flexibility to meet virtually any system requirement.

This ensures compatibility with MIL-STD 141B Automatic Link Establishment (ALE), STANAG 4538 third generation and other advanced modes of operation. The unit also attenuates unwanted transmit and receive signals for clearer communications.



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FLEXIBLE, HIGH-PERFORMANCE SOLUTION

KEY BENEFITS

- > Fully automatic operation and rapid tuning streamline user experience
- > Ruggedized for tough performance in harsh conditions
- > Built-in easy-to-operate equipment status and diagnostics
- > Fits standard RF-5800H series mount and systems, saving deployment time and equipment costs

GENERAL	
Frequency Range	1.6-30 MHz (bandpass filters used 2.0-30 MHz, low pass filter below 2.0 MHz)
DC Voltage	18-32 VDC
DC Current	1.5 Amps at 26.4 VDC 2.5 Amp breaker

PHYSICAL	
Dimensions	5.3 H x 15.25 W x 11.82 D in (13.97 H x 38.74 W x 30.00 D cm)
Weight	22.4 lb. (10.2 kg)
Color	CARC Green 383

ENVIRONMENTAL	
Operating Temperature	-40°F to 158°F (-40°C to 70°C)
Shock	MIL-STD-810E
Vibration	MIL-STD-810E
Leakage	MIL-STD-810E (1 m submersible)
Humidity	MIL-STD-810E (0 to 95%)

ELECTRICAL	
Bandpass	Selectivity 40 dB nominal (± 1 dB) at $\pm 10\%$ from tuned frequency
Tune Time	<20 msec from end of frequency data, typically 12.5 msec
Input Impedance	50 ohm unbalanced VSWR <2:1
Maximum Bypass Power	400 watts, 2:1 VSWR
Overall Gain	High Gain: 3 ± 3 dB Low Gain: -8 ± 3 dB
Noise Figure	13 dB maximum (high gain)
RF Overload Trip Points	In Band: 10 VRMS Out of Band: 100 watts nominal peak, average power thermally limited
Control	Serial data bus from transceiver

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