

**RF-5845H-PP101****DIGITAL  
PRE/POSTSELECTOR**

*provides significant reduction  
of unwanted receive signals  
and spurious transmitter  
outputs, allowing collocated  
operation of two  
or more systems*

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

Fully automatic operation (controlled from the host transceiver) and rapid tuning capability make pre/postselector operation virtually transparent to the user. Operational configuration and BITE/fault status reporting are all done through the respective transceivers.

The RF-5845H-PP uses the rugged tactical packaging and meets the same environmental specifications for temperature, shock, vibration, and submersibility as the rest of the FALCON II family components. This capability ensures that collocation requirements can be met in even the harshest environments.

Operation is fully automatic. Built-in test equipment (BITE) and diagnostic testing are fully integrated into the transceiver system. The RF-5845H-PP packaging allows it to be fitted into standard RF-5800H Series mounts and systems.

The RF-5845H-PP attenuates unwanted transmit and receive signals 10 percent removed from the operating frequency by 40 dB (nominal). An additional unit can be cascaded for greater attenuation should this be required. A bypass function and separate receive antenna port give the pre/postselector the flexibility to meet virtually any system requirement.

The RF-5845H-PP will tune to a new channel in less than 20 msec. This agility ensures compatibility with MIL-STD-188-141B Automatic Link Establishment (ALE), STANAG 4538 third generation, and other advanced modes of operation. The RF-5845H-PP101 includes all interconnecting cables.



**General**

<b>Frequency Range</b>	1.6 to 30 MHz (Bandpass filters used 2.0 to 30 MHz, low pass filter below 2.0 MHz)
<b>Dimensions</b>	5.3H x 15.25W x 11.82D inches (13.97H x 38.74W x 30.00D cm)
<b>Weight</b>	22.4 lb. (10.2 kg)
<b>Operating Temperature</b>	-40° to 70°C
<b>Shock</b>	MIL-STD-810E
<b>Vibration</b>	MIL-STD-810E
<b>leakage</b>	MIL-STD-810E (1 m submersible)
<b>Humidity</b>	MIL-STD-810E (0 to 95%)
<b>DC Voltage</b>	18 – 32 VDC
<b>DC Current</b>	1.5 Amps. at 26.4 VDC, 2.5 Amp.breaker
<b>Color</b>	CARC Green 383

**Electrical**

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

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