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50 Watts Multi-Band Power Amplifier Kit With Automatic Switching Power Supply

ABP-50WMB-RM

The ABP-50WMB-RM is a 50 Watt portable RF amplifier that covers the frequency band of 30-512 MHz. With automatic band switching, SINCGARS Frequency Hopping (ECCM), HAVEQUICK and DAMA compatibility it covers VHF/UHF LOS and SATCOM bands for Tactical Radios employing different waveforms. Extensive filtering insures low harmonics and minimizes co-site interference. Internal LNA amplifies the receive signal in SATCOM mode. Heavy duty shock/vibration isolators provide protection against severe impact shock with efficient vibration isolation for off-road applications. Selectable multi-level RF output power levels. This amplifier can be powered from two BA-XX90 or BB-XX90 series batteries or 12V/24V/28V power. Sleep mode in standby RX reduces the current drain of the amplifier. Protection is provided against reverse polarity, over temperature and antenna mismatch. Status and fault indication is provided. The amplifier is designed to meet MIL-STD-810 and MIL-STD-461.

An ideal product to add amplification to existing systems not currently amplified.

The ABP-50WMB-RM includes amplifier, RF cable, power supply, shock/vibration mount, AC and DC power cables and mounting hardware.

REQUEST QUOTE CONTACT SALES

SPECIFICATIONS

Specifications

WEIGHT	DIMENSIONS	RADIO QUANTITY

12 lbs	15.75 × 6.00 × 5.81 in	1
AC INPUT VOLTAGE (VAC)	**DC INPUT VOLTAGE (VDC)**	**FREQUENCY BAND**
85-270	9-36	UHF SATCOM, VHF LOS
POWER OUTPUT (WATTS)	**SATCOM LNA**	**FREQUENCY BAND (MHZ)**
50	Yes	30-512
OPERATING TEMPERATURE	**ENVIRONMENTAL**	**TRANSCEIVER**
-30 to +60°C	Water Proof	AN/PRC-113, AN/PRC-117D/E, AN/PRC-117F, AN/PRC-117G, AN/PRC-119, AN/PRC-119E, AN/PRC-138, AN/PRC-148, AN/PRC-152, AN/PRC-154, AN/PRC-155, AN/PRC-158, AN/PRC-163, AN/PSC-5, AN/PSC-5C/D, ASIP, JEM, LST-5, MBITR, MBMMR, MST-20, MXF-400, RF-335M-STC, RF-5800M-MP, RF-5800V-MP, RF-7800M-MP, RF-7800V-HH, RIFLEMAN, RT-1439, RT-1523, RT-1523E/F/G, TW-135, URC-200

PART NUMBER	ABP-50WMB-RM
FREQUENCY RANGE	30 MHz – 512 MHz
POWER OUTPUT	45 Watts CW nominal, 45W PEP with 80% AM modulation, less than 10% distortion
INPUT POWER	< 5 Watts typical for 45 Watts Output, Input Protection for up to 20W CW
AC INPUT	World-wide 85-270VAC / 47-440Hz
DC INPUT	9 to 36VDC (to include 12VDC, 24VDC and 28VDC)
LNA GAIN	12 dB typical for SATCOM band
COMPATIBILITY	SINCGARS FH, Have Quick, HPW and DAMA Compatible
BYPASS INSERTION LOSS	1.0 dB nominal
MODULATION	AM, FM, or PM
INPUT VSWR	1.5:1 maximum
HARMONICS	-60 dBc typical
POWER REQUIREMENT	7.5 Amps @ 24V typical
BATTERY OPERATION	Two BA-XX90 or BB-XX90 series batteries
PROTECTION	Reverse Polarity, Voltage Spike, Antenna Mismatch, Over Temperature
OPERATING TEMPERATURE	-30 to +60 ºC
ALTITUDE (operating)	15,000 Feet
IMMERSION (water)	IP67 (Waterproof)
VIBRATION / SHOCK / HUMIDITY	Per Mil Std 810E
SIZE (HxWxD)	5.81” x 6.00” x 15.75” (Amplifier, Mount and Power Supply)
WEIGHT	12 lbs.
CONNECTORS	RF Input: BNC Female RF Output LOS: TNC Female RF Output SATCOM: N Type Female

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