



DTV LOW NOISE PREAMPLIFIER

ORDERING INFORMATION

| | | |
|--------------------|------------------|---|
| Part Number | PA-20U-50 | 20dB Gain-50 Ω |
| | PA-20U-75 | 20dB Gain-75 Ω |

NOW Broadcast and CATV engineers have a comprehensive choice in professional quality DTV pre-amplifiers. Superior power handling and ultra low noise design allows for amplification of weak off-air signals mixed with strong local carriers without the use of an expensive pre-selector filter. The PA-20U provides superior power handling for multi-carrier mixed signal environments.



SPECIFICATIONS*

| | |
|------------------------|--|
| Input Frequency | 470-800 MHz |
| Noise Figure | .5 dB Typical, 1.0dB Max |
| Gain | 20 dB |
| Gain Flatness | \pm .5 dB per Channel \pm 1.5 dB per Band |
| IP3 | +35 dBm |
| P1dB | 20dBm |
| Input Impedance | 50 Ω or 75 Ω |
| Output Impedance | 50 Ω or 75 Ω |
| Input VSWR | 1.5:1 Typical |
| Output VSWR | 1.5:1 Typical |
| Input Connector | 50 Ohm, Type 'N' Female/75 Ohm, Type 'F' Female |
| Output Connector | 50 Ohm, Type 'N' Female/75 Ohm, Type 'F' Female |
| DC Supply Voltage | +16 to 24 VDC |
| Current | <100ma Typical |
| Power Supply Connector | Type 'F' Female, w/Output Power Diplex |
| Temperature Limits: | |
| Operating | -40°C to +50°C |
| Storage | -50°C to +85°C |
| Leak Testing | Per CWT DT-2005.1 |
| Finish | White Polyester Powder Coat Paint |
| Physical Dimensions: | |
| Size | H: 10.0" W: 4.75" D: 2.0" |
| Weight | 2.2 lbs. |
| Mast Size | 1"-2.5" O. D. |
| Accessories Included: | Mounting Bracket, Bias T, 24VDC Power Supply |

*Specifications subject to change without notice.

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EMCEE COMMUNICATIONS
 1635 West 12th Place
 Tempe, AZ 85281 USA
 480-315-9283

www.emceecom.com

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