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## Prime Focus Universal Single LNBF

Model No. AP8-TFE

### RF Input

Input Frequency Range

Low Band: 10.7 ~ 11.70 GHz  
High Band: 11.7 ~ 12.75 GHz

### IF Input

Output Frequency Range

Low Band: 950 ~ 1950 MHz  
High Band: 1100 ~ 2150MHz

Output Connector Type

75Ω Female Connector

Output VSWR

2.0:1 (Typ.) @ Room Temperature

### Local Oscillator

LO. Frequency

Low Band: 9.75 GHz High Band: 10.6GHz

LO. Frequency Stability

± 1MHz (Max.) @ Room Temperature

LO. Frequency Phase Noise

-55dBc/Hz@ 1KHz (Max.)

-80dBc/Hz@10KHz (Max.)

-100dBc/Hz@100KHz (Max.)

### Conversion Performance @Room Temperature

Conversion GAIN

70dB (Max.) 65dB (Min.)

Gain Variation (P-P)

5dB (Typ.)

Gain Flatness (across any 26 MHz segment)

± 0.5dB (Typ.)

Noise Figure

Low Band: 0.5dB (Typ.)

How Band: 0.5dB (Typ.)

Image Rejection

45dB (Min.)

Cross Polarization

25dB (Typ.)

### Power Requirements

DC Current Consumption:

100mA (Typ.)

Operating Voltage -

Vertical: 11.5 ~ 14 Vdc

Horizontal: 16 ~ 19 Vdc

Band Switching

Low Band: 0 Hz

High Band: 22 KHz ± 4KHz



### Environmental

Operating Temperature Range

-40 ~ +60

Storage Temperature Range

-55 ~ +80