

## Universal Single Circular LNBF Specification

### Model No. AP8-T4C

#### RF Input

Input Frequency Range 11.7 ~ 12.75 GHz

#### IF Input

Output Frequency Range 950~2000 MHz

Output Connector Type 75Ω Female Connector

Output VSWR 2.0:1 (Typ.) @ Room Temperature

#### Local Oscillator

LO. Frequency 10.75GHz

LO. Frequency Stability  $\pm 1$ MHz (Max.) @ Room Temperature

LO. Frequency Phase Noise  
 -55dBc/Hz@ 1KHz (Max.)  
 -80dBc/Hz@10KHz (Max.)  
 -100dBc/Hz@100KHz (Max.)  
 -105dBc/Hz@1MHz (Max.)  
 -110dBc/Hz@10MHz (Max.)

#### Conversion Performance @Room Temperature

Conversion GAIN 62dB (Max.)

Gain Variation (P-P) 5dB (Typ.)

Gain Flatness (across any 26 MHz segment)  $\pm 0.5$ dB (Typ.)

Noise Figure  
 Low Band: 0.4dB (Typ.)  
 High Band: 0.4dB (Typ.)

Image Rejection 45dB (Min.)

Cross Polarization 25dB (Typ.)

#### Power Requirements

DC Current Consumption: 70mA (Typ.)

Operating Voltage -  
 Vertical: 11.5 ~ 14 Vdc  
 Horizontal: 16 ~ 19 Vdc

Band Switching  
 Low Band: 0 Hz  
 High Band: 22 KHz  $\pm$  4KHz

#### Environmental

Operating Temperature Range -40 ~ +60

Storage Temperature Range -55 ~ +80