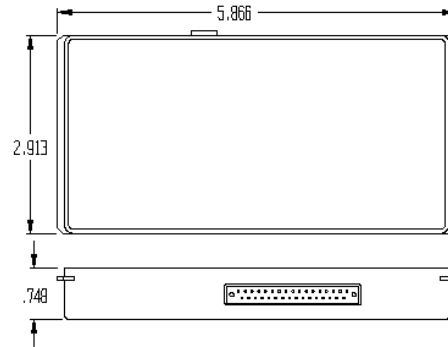


TUN2-LM01 Dual L-Band Tuner



Outline Drawing



Features:

- LNA w/ Gain Control
- High input power protection with an out-of-lock indication for BIT
- Single Conversion
- Small to High Production Quantities
- Field Tested Since 1999

Overview

The TUN2-LM01 is a dual L-band single-conversion tuner designed for use in Microwave Radios. The operating frequency range spans from 1.71 ~ 1.84 GHz with the low band at 1.71 GHz ~ 1.75GHz and the high band at: 1.80 GHz ~ 1.84GHz.

Electrical Specifications:

RF Input Frequency:	1.71 to 1.85 GHz
Power Protection Reference:	0 dBm
Power Attenuation:	45 dB min
LNA Noise Figure:	1.5 dB max
In/Out Impedance	50 Ω
TUN Module Gain over Temp:	59 dB +/- 1 dB
Spurious Attenuation:	70 dB Min
Band Switch Control:	TTL
BPF Bandwidth	
Pass Band BW (1dB):	41 MHz
Pass Band Ripple:	+/-0.50 dB
Image Rejection:	80 dB min
IF Rejection:	100 dB min
Synthesizer SSB Phase Noise	
Offset (kHz) 1:	-70 dBc / Hz
10:	-75 dBc / Hz
100:	-105 dBc / Hz
1000:	-135 dBc / Hz
Synthesizer FM Noise: (Residual FM)	No more than 30 Hz peak deviation measured in a 50
Synthesizer Channel Spacing:	256 kHz step

Mechanical Specifications:

Dimensions:	5.866" x 2.913" x 0.748"
Connectors:	BMA(f), MCX(f) x2

Environmental Specifications:

Operating Temperature:	-40°C to +55°C
Storage Temperature:	-55°C to +85°C