



# Q Band LNA

## LNA-Q-3742-A

### Q Band Low Noise Amplifier for satellite communications

#### TECHNICAL SPECIFICATIONS

##### ELECTRICAL

Frequency band	37.5-42.5 GHz
Input VSWR	<2.0:1
Output VSWR	<2.0:1
Gain	50 dB (typ)
Gain flatness over whole band	±2.0 dB
Gain variation over temperature	±2.0 dB over whole range
Gain stability over 24 hours	<±0.1 dB
Noise Figure	<2.5 dB
P1dB	≥5 dBm
OIP3	≥15 dBm
Spurious (@Pout=0 dBm)	≤-60 dBc
Power Supply Voltage	12 to 24 VDC
Power consumption	75 mA @12 VDC (TBC)

##### INTERFACES & PHYSICAL

Rx input	WR-22 (UG-383/U)
RX output	WR-22 (UG-383/U)
Size	145 x 70 x 40 mm (TBD)
Weight	500 g (TBD)

##### ENVIRONMENTAL CHARACTERISTICS

Operating temperature	-30 °C to +55 °C
Storage temperature	-40 °C to 85 °C
Humidity	100% condensing



#### Key Features

- Wideband
- Low noise figure
- High reliability
- Superior performance