Dual Channel Q band Tracking Block Down Converter
DC-Q-3940

Dual Channel Q band Down Converter

TECHNICAL SPECIFICATIONS

ELECTRICAL

RF Input Frequency	
Channel 1 / Channel 2	39.3-39.8 / 39.3-39.8 GHz
IF Output Frequency	
Channel 1 / Channel 2	950-1450 MHz / 950-1450 MHz
LO	Single common LO for both channels
Frequency inversion	No
Input VSWR	< 1.5:1
Output VSWR	< 2.0:1
1 dB compression point	≥ 5 dBm
Conversion Gain	≥ 60 dBm
Attenuation Range	30 dB in 0.5 dB steps
Gain Flatness over whole band	± 2 dB
Image Rejection	≥ 60 dB
Spurious	
Signal related	≤ -60 dB
Signal independent	≤ -70 dB
3rd order output intercept point	≥ 10 dBm
Phase noise	As per IESS-308/309
External reference	10 MHz / 0 dBm ±3 dB

POWER SUPPLY

DC input Voltage	12-24 VDC @500 mA (max)
Power Consumption @ Psat	6 W

MECHANICAL & INTERFACE

Dimensions (L x W x H)	164 x 108 x 40 mm (6.4” x 4.2” x 1.7”)
Weight	800 gr (1.76 lbs)
Interfaces	Input connector: WR-22 (UG-383/U)
	Output connector: N (F) 50 Ω
External reference connector	SMA (F) 50 Ω (multiplexed on L-band upon request)

MONITOR & CONTROL

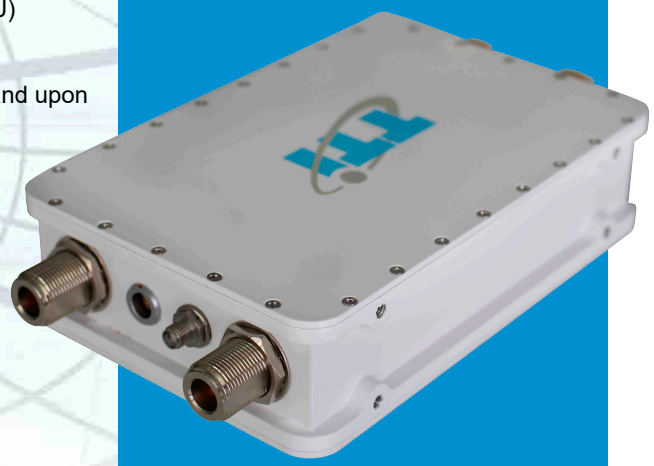
Monitor and control interface	RS-485

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-10ºC to +55ºC
Storage Temperature	-40ºC to +85ºC
Degree protection	IP 67
Humidity	100% Condensing

Key Features

- Tracking converter
- Dual Channel
- Shared oscillator
- Excellent image rejection



*One-year limited warranty

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