

STANDARD SPECIFICATIONS**General:**

Standard Frequency Bands (Other frequency bands can be supported)	200 MHz programmable tuning range within 1400 MHz to 1600 MHz frequency band. 200 MHz tuning range within 2200 MHz to 2400 MHz band 200 MHz tuning range within 5 GHz to 6 GHz band
Nominal Frequency Stability	± 0.002 %
Output Power	Can be supplied in mechanical and electrical configurations providing from 10 milliwatts up to 10 Watts.
VSWR	Protected against damage from any VSWR

Modulation:

Modulation Type	User Selectable PCM/FM or SOQPSK Modulation or Analogue Voltage / FM.
Analogue Frequency Response	DC to 15 MHz ± 1.5 dB as standard (other ranges available) for Analogue Input Signal
Analogue Input Carrier Deviation Sensitivity Range	Nominal 100 KHz to 10 MHz per Volt rms range – user defined
TTL Clock and Data Bit Rate Range for PCM/FM and SOQPSK Modulation	10 MBPS for NRZ PCM Codes as standard. Externally Pre-modulation filtered analogue unlocked PCM signal input option available for both PCM/FM and SOQPSK Modulation schemes

Power Requirements:

Voltage	28V ±4 Volts DC (Other DC Power supply voltage options including 12 V DC are available)
Current	Nominal 950 mA for 5 Watts output at 25 ^o Centigrade with 28 V DC power supply. Current will vary depending on transmitter configuration
Isolation	Power and Modulation return are common to case ground as standard

Mechanical:

Nominal Dimensions	Up to 5 Watts: Standard 55 mm wide 80 mm long and 28 mm high excluding connectors 5 Watts to 10 Watts: Standard 65 mm wide 90 mm long 35mm high excluding connectors 10 Watt minimum footprint package Option: 55 mm wide 80 mm long and 38 mm high excluding connectors.
Power, Modulation and Programming Connector	15 way microminiature D-Type
RF Output Connector	SMA as standard. Other options available

Environmental:

Normal Operating Temperature	-30 ^o Centigrade to +70 ^o Centigrade baseplate temperature
Vibration	>20g sine, 0.1 g ² random, 20Hz to 2000Hz, in any axis
Shock	100g for 1 ms in three mutually perpendicular axes
Acceleration	100g in three mutually perpendicular axes

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