



BDC-100049

Single Band X-Band INT BDC

Frequency: 8.02 - 8.42 GHz

Connector: N - Connector

DC Power: DC Power through Output Connector

KEY SPECIFICATIONS

Band	X-Band
Input Frequency Band 1	8.02 - 8.42 GHz
LO Frequency 1	7.52 GHz
LO Stability	±25 KHz max
Noise Figure Max	10 dB at no attenuation
Output Frequency Band 1	500 - 900 MHz

RF SPECIFICATIONS

Conversion Gain Max	33 dB
Conversion Gain Min	27 dB
Conversion Gain Typ	30 dB
Gain Attenuation	1 to 30 dB range, 1 dB step
Gain Flatness (over 36mhz)	± 0.5 dB max.
Gain Flatness (over Full Band)	± 1.5 dB max.
Image Rejection	40 dBc min.
Input VSWR	1.4 : 1 max
Oip3	+ 28 dBm min.
Output P1db	+ 15 dBm min.
Output VSWR	1.5 : 1 max.
Phase Noise 1khz Offset Max	-75 dBc/Hz
Phase Noise 10khz Offset Max	-85 dBc/Hz
Phase Noise 100khz Offset Max	-95 dBc/Hz

ELECTRICAL SPECIFICATIONS

Current Consumption	300 mA max.
Power Requirements	+12 to +24V DC

INTERFACE SPECIFICATIONS

Input Power	DC Power via Output Connector
M And C	RS-485 for gain attenuation
RF Input Connector	N-Connector
RF Output Connector	N-Connector



ENVIRONMENTAL SPECIFICATIONS

IP Rating	IP 67
Temperature Operational	-40 to +60°C

PHYSICAL SPECIFICATIONS

Product Height	42.6 mm
Product Length	108 mm
Product Weight	TBD
Product Width	79.5 mm

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in the Republic of Korea	Richmond, BC, Canada	EAR99	

MECHANICAL DIAGRAMS
