



BDC-X05HCNF

Single-Band X-Band BDC (5 KHz max.)

Frequency: X-Band: 7.25 - 7.75 GHz

Power Connector: Output connector only

Connectors: Input: N Connector & Output: F Connector



KEY SPECIFICATIONS

Band	X-Band
L O Frequency 1	6.3 GHz
L O Stability	5 KHz max.
Noise Figure	13 dB max.
Output Frequency Band 1	950 - 1450 MHz
Required Current	300 mA max.

RF SPECIFICATIONS

Conversion Gain	30 dB typ., 27 dB min., 33 dB max.
Frequency Range	X-Band: 7.25 - 7.75 GHz
Gain Flatness	4 dB p-p max.
Gain Ripple (At Per 36 M Hz)	1 dB p-p max.
Image Rejection	40 dBc min.
Input V S W R	2.2 : 1 max.
Output P1D B	5 dB max.
Output V S W R	2.2 : 1 max.
Phase Noise 100Khz Offset	-95 dBc/Hz
Phase Noise 10Khz Offset	-80 dBc/Hz
Phase Noise 1Khz Offset	-70 dBc/Hz
Reference	Internal Reference



Last updated: 2024/06/10



ELECTRICAL SPECIFICATIONS

Power Connector	Output connector only
Power Supply	+12 to +24 VDC

INTERFACE SPECIFICATIONS

R F Input Connector	N Connector
R F Output Connector	F Connector

ENVIRONMENTAL SPECIFICATIONS

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

PHYSICAL SPECIFICATIONS

Product Dimensions (Lx Wx H)	42.6 x 79.5 x 108.0 mm
Product Weight	550 g

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	ECCN Number	Unit Package
8517700000	Made in Korea	EAR99	190 x 115 x 75 mm 550 g

MECHANICAL DIAGRAMS



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