



BDC-KAXACF

Single-Band Ka-Band EXT BDC

Frequency: Ka-Band: 17.2 - 18.2 GHz

Power Connector: Output connector only

Output Connector: F Connector



KEY SPECIFICATIONS

Band	Ka-Band
External Ref Freq	10 MHz, -5 to +5 dBm
L O Frequency 1	16.25 GHz
L O Stability	Depends on Ext. Ref
Noise Figure	18 dB max.
Output Frequency Band 1	950 - 1950 MHz
Required Current	300 mA max.

RF SPECIFICATIONS

Conversion Gain	25 dB typ., 22 dB min., 28 dB max.
Frequency Range	Ka-Band: 17.2 - 18.2 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	External Reference



Last updated: 2024/06/22



ELECTRICAL SPECIFICATIONS

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

INTERFACE SPECIFICATIONS

R F Input Connector	SMA 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)	89.6 x 78.0 x 40.0 mm
Product Weight	300 g

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	ECCN Number	Unit Package
8517700000	Made in Korea	EAR99	145 x 95 x 65 mm 400 g

HOW TO ORDER

BDC-KA10HACF

KA: Ka-Band	CONNECTOR	F: 75 Ohm N: 50 Ohm
	POWER CONNECTOR	D: Feed & Output Connector C: Output Connector Only P: Feed Through Connector Only
	FREQUENCY	A: 17.2 - 18.2 GHZ B: 18.2 - 19.2 GHZ C: 19.2 - 20.2 GHZ D: 20.2 - 21.2 GHZ E: 21.2 - 22.2 GHZ
	REFERENCE	H: Internal E: External
	L.O. STABILITY	10: 10 dB 25: 25 dB

MECHANICAL DIAGRAMS



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