

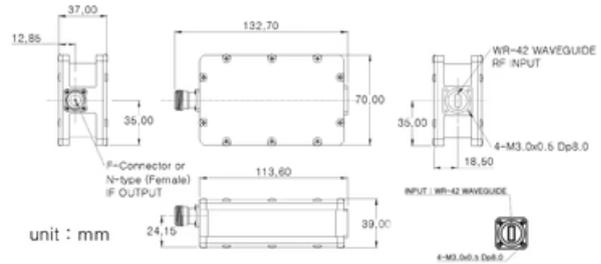


9016XBC-3F

9000X-3 Dual-Band Ka-Band EXT REF LNB

Frequency: BC: Switching between B & C
Output Connector: F: 75 Ohm

Norsat's Low Noise Blocks (LNBs) provide signal reception for satellite communications around the world. We offer premium performance and reliability in the smallest form factor possible. All of our standard Ka-Band LNBs are backed by a 3 year warranty and nearly forty years of experience as the industry's leading provider of high performance LNBs. 9000X-3 Series.



KEY SPECIFICATIONS

Band	Ka-Band
External Ref Freq	10 MHz (sine-wave), - 5 to +5 dBm
Input Frequency Band 1	19.20 - 20.20 GHz
Input Frequency Band 2	20.20 - 21.20 GHz
LO Frequency 1	18.25 GHz
LO Frequency 2	19.25 GHz
LO Stability	Ext Ref
LO Type	EXT
Noise Figure Max	1.6 dB
Noise Figure Typ	1.3 dB
Number Of Onboard Los	Dual-Band
Output Frequency Band 1	950 - 1950 MHz
Output Frequency Band 2	950 - 1950 MHz

RF SPECIFICATIONS

Control Signal 1	13V / No Tone
Control Signal 2	18V / No Tone
Conversion Gain Max	65 dB
Conversion Gain Min	55 dB
Conversion Gain Typ	58 dB
Gain Flatness (over Full Band)	4 dB p-p
Image Rejection	40 dBc min.
Input VSWR	2.2 : 1 max.
Output P1db	5 dBm min.



Output VSWR	2.0 : 1 max.
Phase Noise 0.1khz Offset Max	Depends on External Reference
Phase Noise 1khz Offset Max	Depends on External Reference
Phase Noise 10khz Offset Max	Depends on External Reference
Phase Noise 100khz Offset Max	Depends on External Reference
Phase Noise 1000khz Offset Max	Depends on External Reference
Spurious	-60 dBc (in band) ; -50 dBc (out of band)

ELECTRICAL SPECIFICATIONS

Current Consumption	350 mA
Power Requirements	+12 to +19V DC

INTERFACE SPECIFICATIONS

IF Connector	F-Connector
RF Input Connector	WR-42 waveguide grooved

M and C SPECIFICATIONS

Led Indicators	None
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ENVIRONMENTAL SPECIFICATIONS

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

PHYSICAL SPECIFICATIONS

Product Height	37 mm
Product Length	134 mm
Product Weight	0.5 kg
Product Width	67 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	190 x 100 x 70 mm 0.54 kg

HOW TO ORDER



9016XBC-3F

CONNECTOR	F - 75 Ohm N - 50 Ohm
FREQUENCY	AEBE - Switching between AE & BE BC - Switching between B & C
NOISE FIGURE	1.6 dB
LNB SERIES #	

MECHANICAL DIAGRAMS
