

3100F-SBPF-4

C-Band 5G Rejection LNB and Switching Bandpass Filter

L.O Stability: 1: ± 10 kHz

Output Connector: F: 75 Ohm

Frequency: 4: 3.40 - 4.20 / 3.80 - 4.20 GHz

Norsat's Low Noise Block downconverter plus Switching Band Pass Filter provide signal reception for satellite communications while rejecting terrestrial interference in C-Band. We offer premium performance and reliability in the smallest form factor possible. Backed by a 3 year warranty and over forty years of experience as the industry's leading provider of high performance microwave components. 3200-sBPF Series.



KEY SPECIFICATIONS

Band	C-Band
Input Frequency Band 1	3.40 - 4.20 GHz
Input Frequency Band 2	3.80 - 4.20 GHz
LO Frequency 1	5.15 GHz
LO Frequency 2	5.15 GHz
LO Stability	± 10 kHz
LO Type	PLL
Noise Figure Max	60K
Noise Figure Typ	37K
Number Of Onboard Los	Dual-Band
Output Frequency Band 1	950 - 1750 MHz
Output Frequency Band 2	950 - 1350 MHz
Rejection 1 (-25dbm Interface Signal)	No rejection
Rejection 2 (-25dbm Interface Signal)	< 3.7 GHz and > 4.8 GHz with no degradation

RF SPECIFICATIONS

Conversion Gain Max	70 dB
Conversion Gain Min	55 dB
Conversion Gain Typ	60 dB
Gain Flatness (over Full Band)	≤ 6 dB p-p max.
Input VSWR	2.2 : 1 max.
Output P1db	+ 9 dBm min.
Output VSWR	2.5 : 1 max.



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Phase Noise 1khz Offset Max	-80 dBc/Hz
Phase Noise 10khz Offset Max	-85 dBc/Hz
Phase Noise 100khz Offset Max	-95 dBc/Hz

ELECTRICAL SPECIFICATIONS

Current Consumption	400 mA max.
Power Requirements	+12 to +24V DC
Switching Voltage 1	13V
Switching Voltage 2	18V

INTERFACE SPECIFICATIONS

IF Connector	F-Connector (waterproof)
RF Input Connector	WR-229 waveguide grooved (waterproof)

ENVIRONMENTAL SPECIFICATIONS

IP Rating	IP 66
Temperature Operational	-40°C to +60°C
Temperature Storage	-50 to +70°C

PHYSICAL SPECIFICATIONS

Product Height	69.85 mm
Product Length	159 mm
Product Weight	0.5 kg
Product Width	98.55 mm

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in Canada	Richmond, BC, Canada	EAR99	170 x 115 x 75 mm 0.56 kg

HOW TO ORDER

3200N-sBPF-5

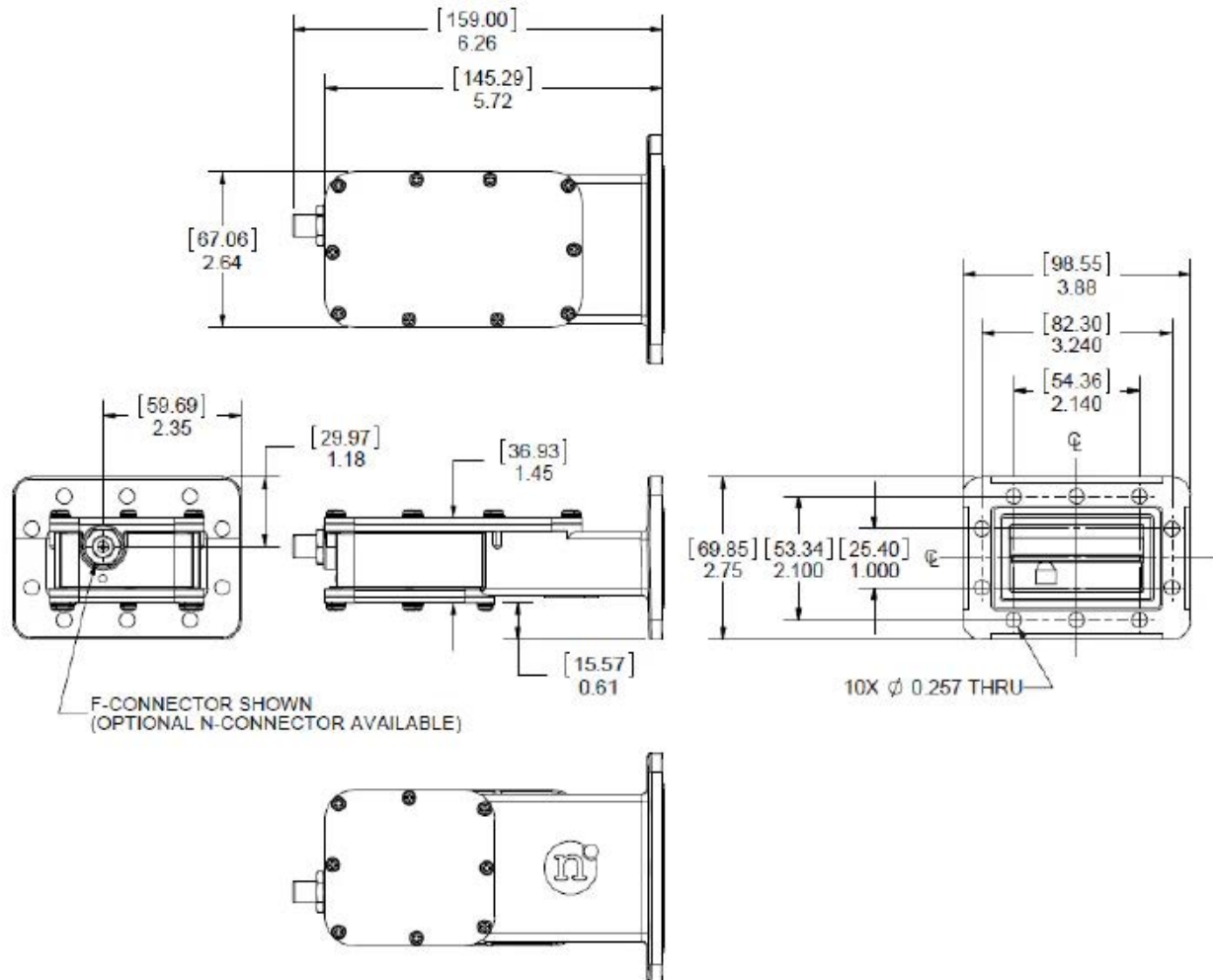
FREQUENCY	4: 3.40-4.20 GHz / 3.80-4.20 GHz 5: 3.40-4.20 GHz / 3.90-4.20 GHz 6: 3.40-4.20 GHz / 4.00-4.20 GHz 7: 3.40-4.20 GHz / 4.10-4.20 GHz
SWITCHABLE	
CONNECTOR	F: 75 Ohm N: 50 Ohm
L.O. STABILITY	0: ± 2 kHz 1: ± 15 kHz 2: ± 25 kHz 5: ± 100 kHz
LNB SERIES #	



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MECHANICAL DIAGRAMS



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