



## 3000N-SBPF-5

### C-Band 5G Rejection LNB and Switching Bandpass Filter

**L.O Stability:** 0:  $\pm 2$  kHz

**Output Connector:** N: 50 Ohm

**Frequency:** 5: 3.40 - 4.20 / 3.90 - 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                | 3.90 - 4.20 GHz                             |
| LO Frequency 1                        | 5.15 GHz                                    |
| LO Frequency 2                        | 5.15 GHz                                    |
| LO Stability                          | $\pm 2$ 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 - 1250 MHz                              |
| Rejection 1 (-25dbm Interface Signal) | No rejection                                |
| Rejection 2 (-25dbm Interface Signal) | < 3.8 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) | $\leq 6$ dB p-p max. |
| Input VSWR                     | 2.2 : 1 max.         |
| Output P1db                    | + 9 dBm min.         |
| Output VSWR                    | 2.5 : 1 max.         |



## Innovative Communication Solutions

|                               |            |
|-------------------------------|------------|
| 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       | N-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  <br>0.56 kg |

## HOW TO ORDER

### 3200N-sBPF-5

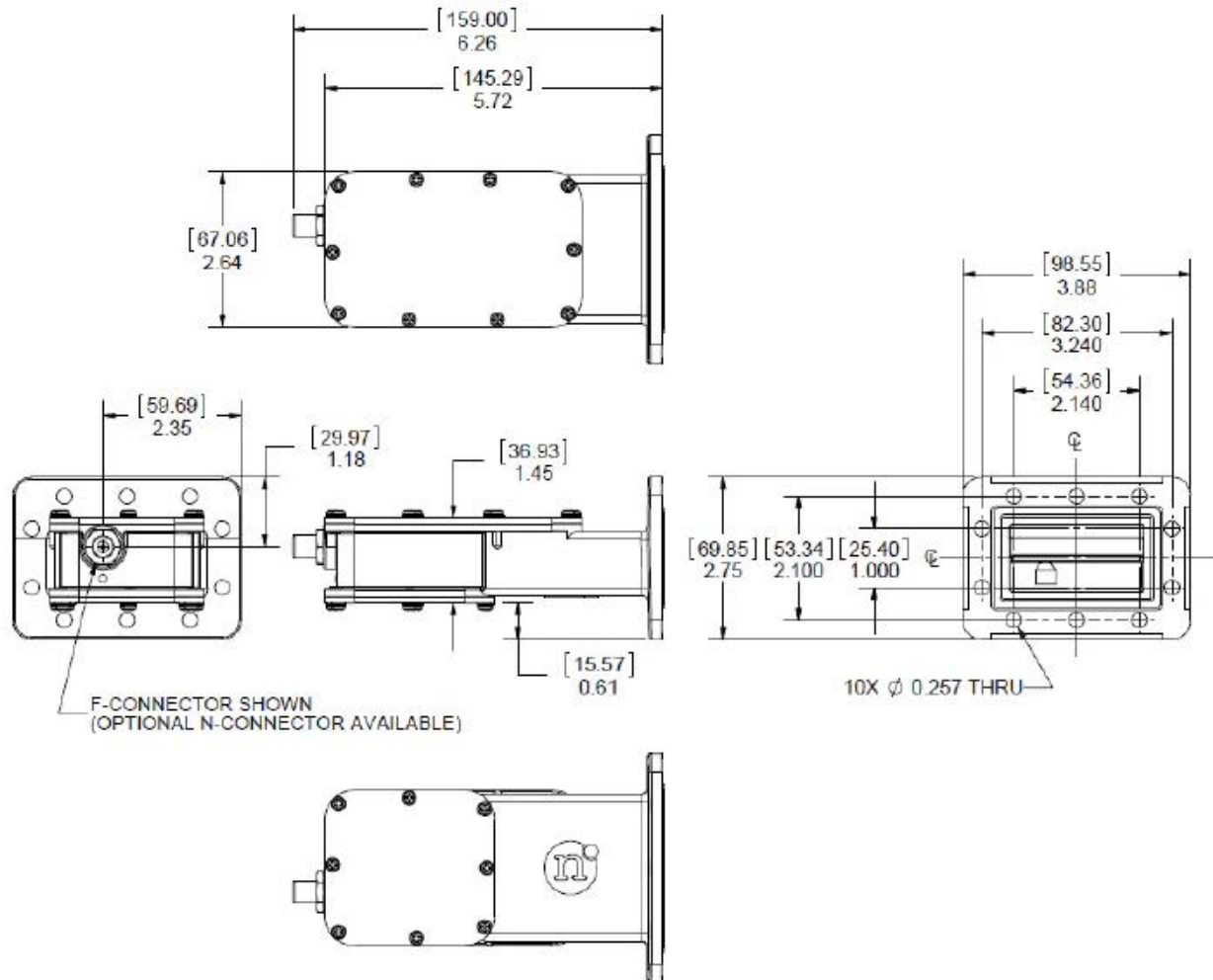
|                |                                                                                                                                              |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------|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



Norsat  
International Inc.

Innovative Communication Solutions

## MECHANICAL DIAGRAMS



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