



## 3500F-BPF-8

### C-Band 5G Rejection LNB and Band Pass Filter

**L.O Stability:** 5:  $\pm 100$ KHz

**Output Connector:** F: 75 Ohm

**Frequency:** 8: 3.82 - 4.20 GHz

Norsat's Low Noise Block downconverter plus 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. 3000-BPF Series.



### KEY SPECIFICATIONS

|                         |                          |
|-------------------------|--------------------------|
| Band                    | C-Band                   |
| Input Frequency Band 1  | 3.82 - 4.20 GHz          |
| LO Frequency 1          | 5.15 GHz                 |
| LO Stability            | $\pm 100$ kHz            |
| LO Type                 | PLL                      |
| Noise Figure Max        | 60K                      |
| Noise Figure Typ        | 37K                      |
| Number Of Onboard Los   | Single-Band              |
| Output Frequency Band 1 | 950 - 1330 MHz           |
| Product Family          | 3000-BPF Series          |
| Rejection Range         | < 3.72 GHz and > 4.8 GHz |

### 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.    |
| 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 |

## INTERFACE SPECIFICATIONS

|                    |                            |
|--------------------|----------------------------|
| IF Connector       | F-Connector                |
| RF Input Connector | CPR 229G waveguide grooved |

## ENVIRONMENTAL SPECIFICATIONS

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

## PHYSICAL SPECIFICATIONS

|                |         |
|----------------|---------|
| Product Height | 70 mm   |
| Product Length | 159 mm  |
| Product Weight | 0.5 kg  |
| Product Width  | 98.5 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



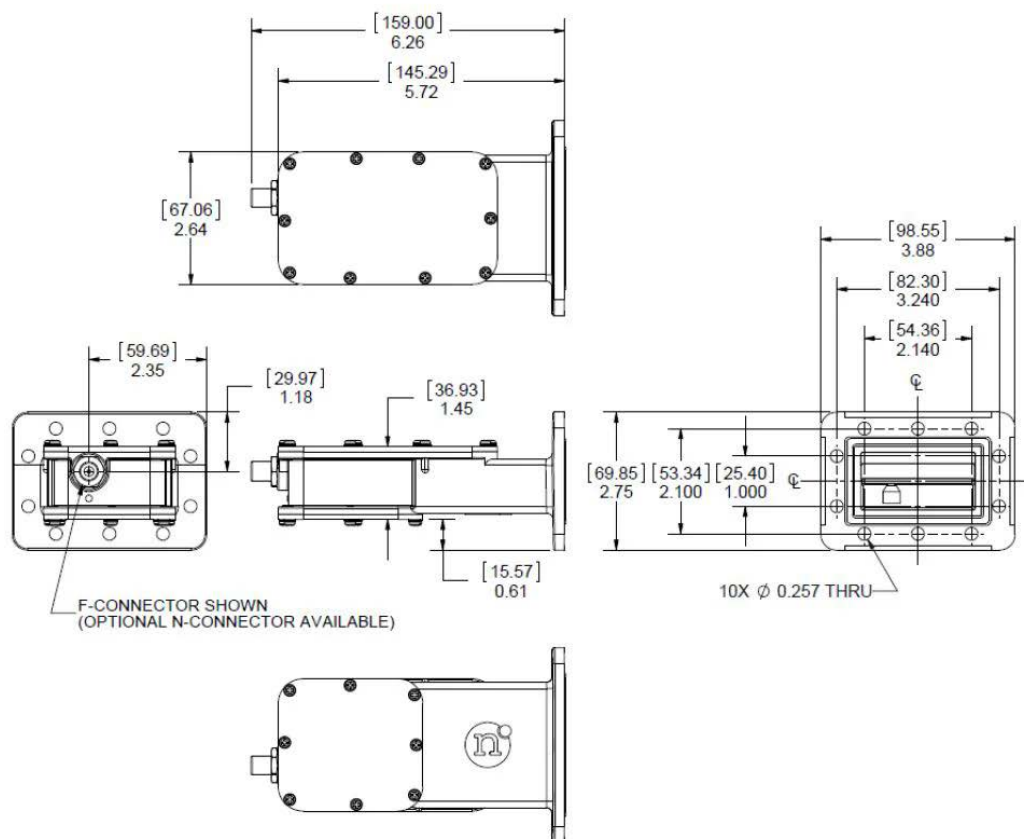
**Norsat**  
International Inc.

Innovative Communication Solutions

## 3200N-BPF-1

|                       |                     |
|-----------------------|---------------------|
| FREQUENCY<br>(OPTION) | 1: 3.70 - 4.20 GHz  |
|                       | 2: 3.625 - 4.20 GHz |
| CONNECTOR             | 3: 3.754 - 4.20 GHz |
|                       | 4: 3.80 - 4.20 GHz  |
| L.O. STABILITY        | 5: 3.90 - 4.20 GHz  |
|                       | 6: 4.00 - 4.20 GHz  |
| LNB SERIES #          | 7: 4.10 - 4.20 GHz  |
|                       | 8: 3.82 - 4.20 GHz  |
|                       | F - 75 Ohm          |
|                       | N - 50 Ohm          |
|                       | 0: $\pm 2$ kHz      |
|                       | 1: $\pm 10$ kHz     |
|                       | 2: $\pm 25$ kHz     |
|                       | 5: $\pm 100$ kHz    |

### MECHANICAL DIAGRAMS



**ESATCOM**  
INC

Norsat authorized distributor

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