INNOVATOR IN ELECTRONICS

- Surface Mount $3.0 \times 3.0$ mm Package
- Complies with Directive 2002/95/EC (RoHS)



## Absolute Maximum Ratings

| Rating | Value | Units |
| :--- | :---: | :---: |
| Input Power Level | 18 | dBm |
| DC Voltage on any Non-ground Terminal | 5 | V |
| Operating Temperature Range | -40 to +85 | ${ }^{\circ} \mathrm{C}$ |
| Storage Temperature Range in Tape and Reel | -40 to +85 | ${ }^{\circ} \mathrm{C}$ |

## Electrical Characteristics

| Characteristic | Sym | Notes | Min | Typ | Max | Units |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Center Frequency | $\mathrm{f}_{\mathrm{C}}$ | 1 |  | 925 |  | MHz |
| Insertion Loss 922 to 928 MHz | IL |  |  | 2.9 | 3.8 | dB |
| Amplitude Ripple 922 to 928 MHz |  |  |  | 0.7 | 2.0 |  |
| Insertion Loss, (920 to 930 MHz ) | IL |  |  | 2.9 | 4.6 |  |
| Amplitude Ripple, (920 to 930 MHz ) |  |  |  | 0.8 | 2.8 |  |
| Attenuation, Referenced from 0 dB : |  |  |  |  |  |  |
| $775 \text { to } 835 \mathrm{MHz}$ |  |  | 40 | 46 |  | dB |
| 835 to 895 MHz |  |  | 36 | 45 |  |  |
| 970 to 992 MHz |  |  | 36 | 46 |  |  |
| 992 to 1075 MHz |  |  | 38 | 44 |  |  |
| Source Impedance $\mathrm{Z}_{\text {S }}$ |  |  |  | 50 |  | $\Omega$ |
| Load Impedance $\mathrm{Z}_{\mathrm{L}}$ |  |  |  | 50 |  |  |
| Case Style | SM3030-6 $3.0 \times 3.0$ mm Nominal Footprint |  |  |  |  |  |
| Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator | 7V, YWWS |  |  |  |  |  |

## Electrical Connections

| Connection | Terminals |
| :--- | :---: |
| Input | 2 |
| Output | 5 |
| Case Ground | All others |



## CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

1. No matching network required for operation at $50 \Omega$
2. Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to $50 \Omega$ and measured with $50 \Omega$ network analyzer.
3. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
4. Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.
5. "LRIP" or "L" after the part number indicates "low rate initial production" and "ENG" or "E" indicates "engineering prototypes."
6. The design, manufacturing process, and specifications of this filter are subject to change.
7. Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per the circuit design.
8. US and international patents may apply.
9. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

## Transfer Function

Format: LogMag REF: OdB


START 825.00 MHz
STOP $991.00 \mathrm{MHz} 2016 / 10 / 13$

## Wideband



## SM3030-6 Case

## 6-Terminal Ceramic Surface-Mount Case $3.0 \times 3.0 \mathrm{~mm}$ Nominal Footprint



TOP VIEW



## Tape and Reel Specifications



COMPONENT ORIENTATION and DIMENSIONS

| Carrier Tape Dimensions |  |
| :---: | :---: |
| Ao | 3.35 mm |
| Bo | 3.35 mm |
| Ko | 1.40 mm |
| Pitch | 8.0 mm |
| W | 12.0 mm |



