imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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RFM products are now Murata products.

• RF Filter Designed for Front End GPS Applications

- 2.0 x 1.6 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

| Rating | Value | Units | | |
|---|----------------|-------|--|--|
| Maximum Incident Power in Passband | +10 | dBm | | |
| Max. DC voltage between any 2 terminals | 5 | VDC | | |
| Operating Temperature Range | -30 to +85 | °C | | |
| Storage Temperature Range | -30 to +95 | °C | | |
| Max Soldering Profile | 265°C for 10 s | | | |

SF1186H

1575.42 MHz **SAW Filter**



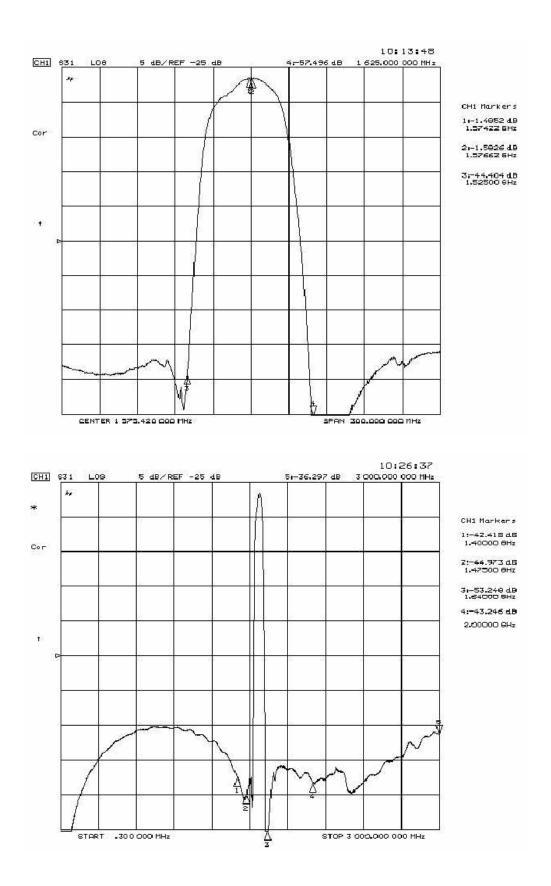
Electrical Characteristics

| Characteristic | | Sym | Notes | Min | Тур | Max | Units | |
|--|----------------------------|---|-------|--------|---------|-----|-------|--|
| Center Frequency | | | | | 1575.42 | | MHz | |
| Max. Insertion Loss (1574.22 - 1576.62 MHz) | | IL | | | 1.5 | 2.2 | dB | |
| Amplitude Ripple (1574.22 - 1576.62 MHz) | | | | | 0.1 | 1.0 | uв | |
| Attenuation (Reference level from 0 dB) | D.C. ~ 1400 MHz | | | 33 | 35 | | | |
| | 1400 ~ 1475 MHz | | | 35 | 42 | | | |
| | 1475 ~ 1525 MHz | | | 25 | 42 | | dB | |
| | 1625 ~ 1640 MHz | | | 30 | 53 | | | |
| | 1640 ~ 2000 MHz | | | 35 | 41 | | | |
| | 2000 ~ 3000 MHz | 2000 ~ 3000 MHz 25 36 | | | | | | |
| VSWR (1574.22 - 1576.62 MHz) | | | | | 1.15 | 2.0 | | |
| Terminating Source impedance | | Z _S | | | 50 | | Ω | |
| Terminating Load impedance | | ZL | | | 50 | | Ω | |
| Single Ended Input / Output, Impedance match | | No matching network required for operation at 50 ohms | | | | | | |
| Case Style | | SM2016-4 | | | | | | |
| Lid Symbolization (Y=year, W=week) | blization (Y=year, W=week) | | | 2L, YW | | | | |

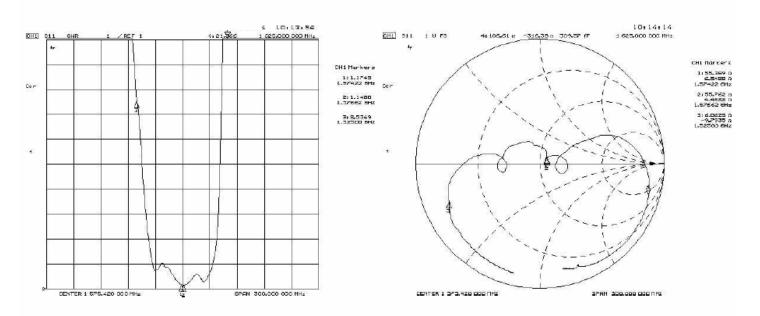
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

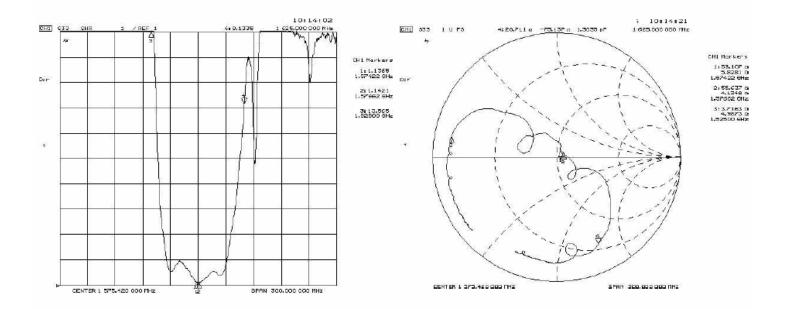
- US and international patents may apply. 1.
- Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd. 2.



S11 VSWR



S22 VSWR



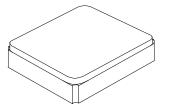
SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case

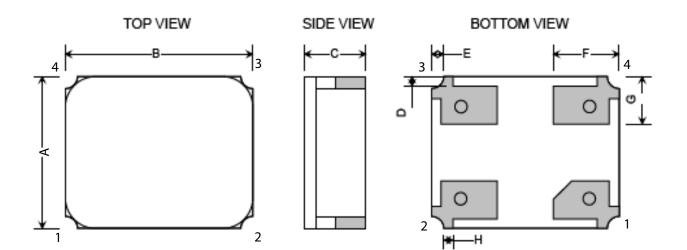
2.0 X 1.6 mm Nominal Footprint

Electrical Connections

| Connection | Terminals | | | |
|------------|-----------|--|--|--|
| Input | 1 | | | |
| Output | 3 | | | |
| Ground | 2, 4 | | | |



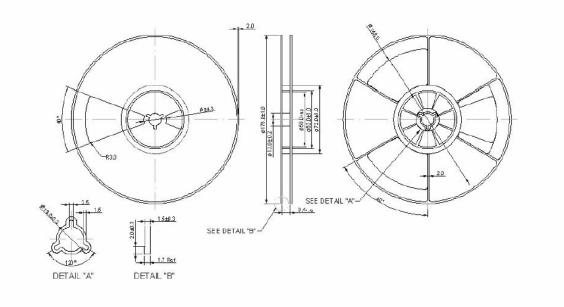
| Dimensions | м | Millimeters | | Inches | | | |
|------------|---|-------------|--|--------|-----|-----|--|
| Binonolono | | | | Min | Nom | Мах | |
| A | | 1.60 | | | | | |
| В | | 2.0 | | | | | |
| С | | 0.90 | | | | | |
| D | | 0.10 | | | | | |
| E | | 0.10 | | | | | |
| F | | 0.70 | | | | | |
| G | | 0.50 | | | | | |
| Н | | 0.10 | | | | | |



F. <u>PACKING:</u>



(Reel Count : 7"=2000 typ. ; 13"=10000 typ.)



2. TAPE DIMENSION

