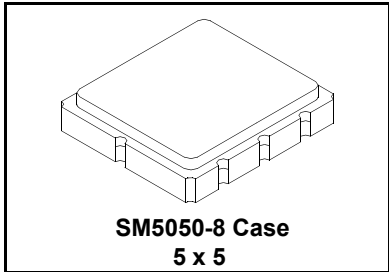


RF3355C

**390.0 MHz
SAW Filter**



- **Ideal Front-End Filter for Wireless Receivers**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Complies with Directive 2002/95/EC (RoHS)**



The RF3355C is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter designed to provide front-end selectivity in 390 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen. Typical applications of these receivers are wireless remote-control and security devices.

This coupled-resonator filter (CRF) uses selective null placement to provide suppression, typically greater than 40 dB, of the LO and image spurious responses of superhet receivers with 10.7 MHz IF. Murata's advanced SAW design and fabrication technology is utilized to achieve high performance and very low loss with simple external impedance matching.

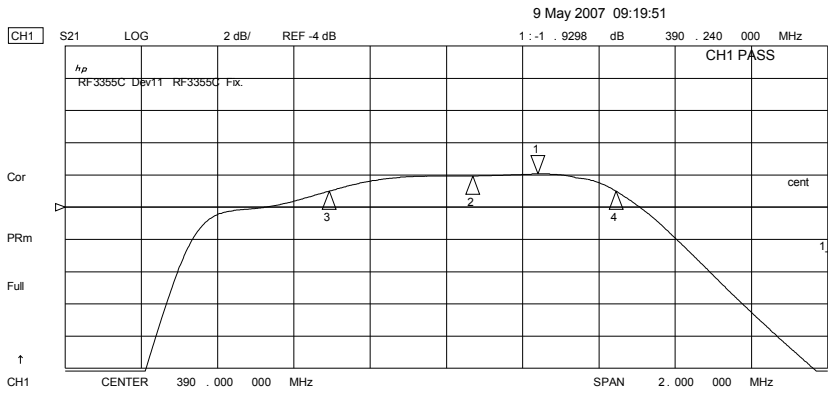
| Characteristic | Sym | Notes | Minimum | Typical | Maximum | Units |
|--|-------------------|------------------|--------------------------|---------|-----------|-------|
| Center Frequency at 25°C Absolute Frequency | f_C | 1, 2 | | 390.0 | | MHz |
| Tolerance from 390.0 MHz | Δf_C | 1, 2 | | | ± 100 | kHz |
| Minimum Insertion Loss 389.82 -390.22 MHz | IL_{min} | 1 | | 2.0 | 4.0 | dB |
| Passband (relative to IL_{min}) | | 1 | 389.77 -390.2 | 1.5 | 3.0 | dB |
| | | | 389.71 -390.26 | 2.0 | 6.0 | |
| Passband (relative to IL_{min}) | BW_3 | 1 | 500 | 1100 | | kHz |
| Attenuation: (relative to IL_{min}) | | 1 | 0 - 345 MHz | 45 | 50 | dB |
| | | | 345 - 370 MHz | 40 | 45 | |
| | | | 370 - 388.94 MHz | 15 | 25 | |
| | | | 391.5 - 410 MHz | 8 | 13 | |
| | | | 410 - 475 MHz | 35 | 45 | |
| | | | 475 - 1000 MHz | 45 | 55 | |
| Impedance at F_C ; Input $Z_{IN}=R_{IN}/C_{IN}$ | | 1 | 344 Ω // 4.9pF | | | |
| Output $Z_{OUT}=R_{OUT}/C_{OUT}$ | | 1 | 344 Ω // 4.9pF | | | |
| Turnover To | | 3, 4 | | 25 | | °C |
| Frequency Aging Absolute Value During the First Year | | 3, 4 | ≤ 10 ppm/yr Typical | | | |
| Lid Symbolization (in addition to Lot and/or Date Codes) | 736 // YWWS | | | | | |
| Standard Reel Quantity | Reel Size 7 Inch | 500 Pieces/Reel | | | | |
| | Reel Size 13 Inch | 3000 Pieces/Reel | | | | |



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture which is connected to a 50 Ω test system with VSWR $\leq 1.2:1$. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_C . Note that insertion loss and bandwidth and passband shape are dependent on the impedance matching component values and quality.
2. The frequency f_C is defined as the midpoint between the 3dB frequencies.
3. Where noted specifications apply over the entire specified operating temperature range.
4. The turnover temperature, T_O , is the temperature of maximum (or turnover) frequency, f_O . The nominal frequency at any case temperature, T_C , may be calculated from:
 $f = f_O [1 - FTC (T_C - T_O)^2]$.
5. Frequency aging is the change in f_C with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing significantly in subsequent years.
6. The design, manufacturing process, and specifications of this device are subject to change without notice.



CH1 Markers

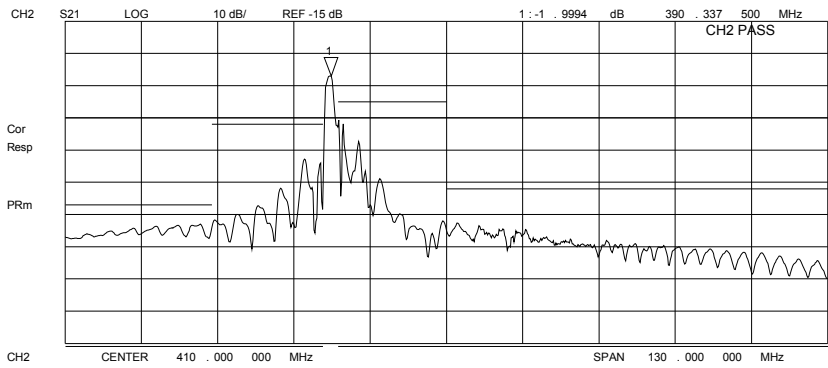
Max

BW: . 752378 MHz

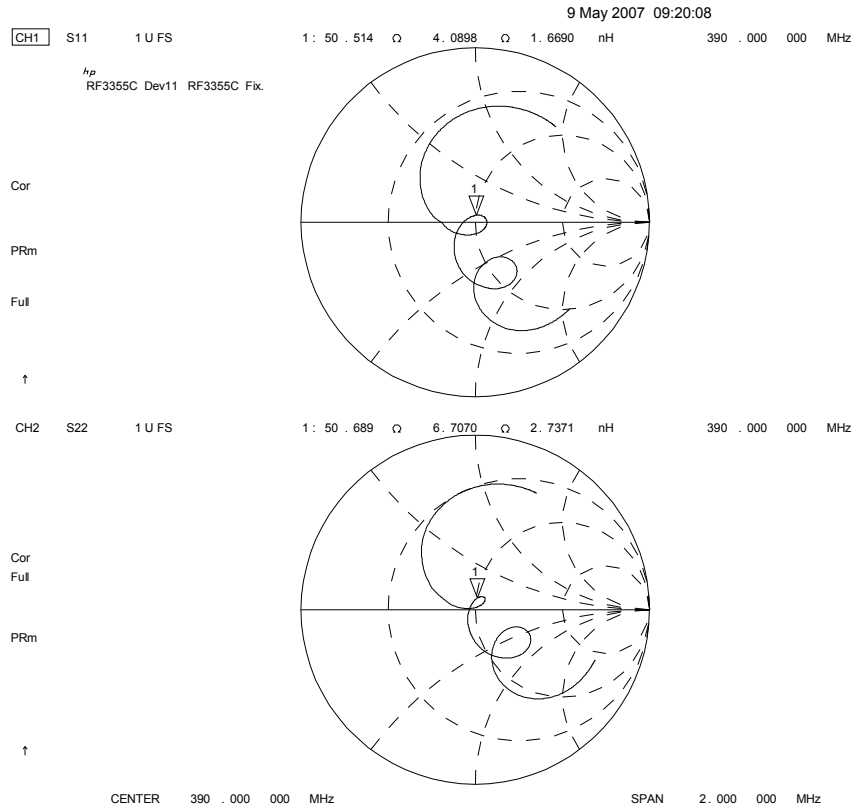
cent : 390 . 068623 MHz

Q: 518 . 45

1 loss : -1 . 9298 dB



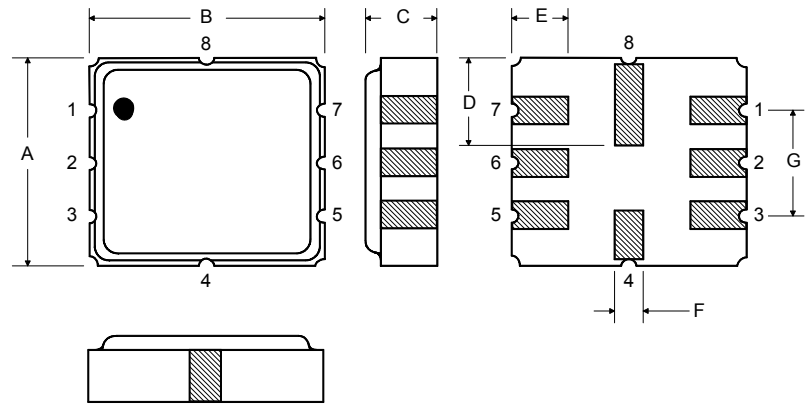
Max



| Rating | Value | Units |
|-----------------------|------------------------------|--------|
| Input Power Level | 10 | dBm |
| DC Voltage | 12 | VDC |
| Storage Temperature | -45 to +85 | °C |
| Operating Temperature | -35 to +85 | °C |
| Soldering Temperature | (10 seconds / 5 cycles max.) | 260 °C |

Electrical Connections

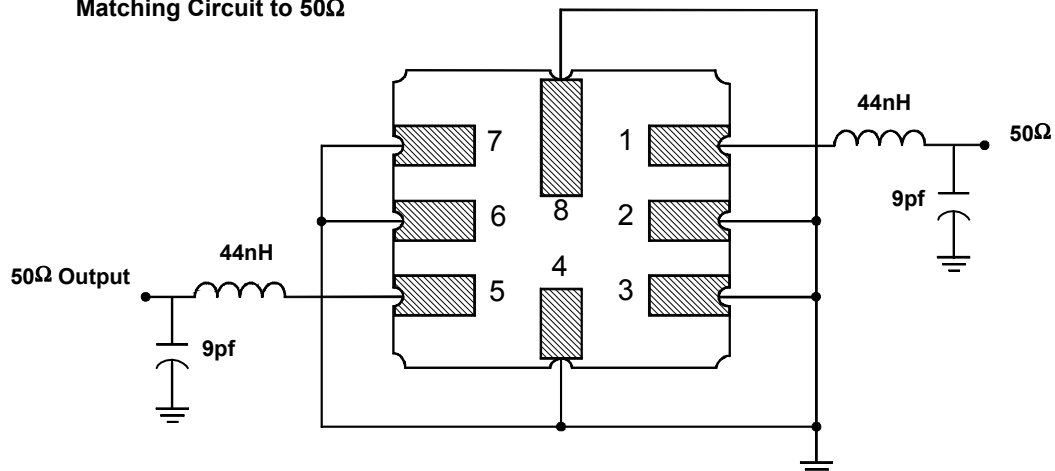
| Pin | Connection |
|-----|----------------|
| 1 | Input |
| 2 | Input Ground |
| 3 | to be Grounded |
| 4 | Case Ground |
| 5 | Output |
| 6 | Output Ground |
| 7 | to be Grounded |
| 8 | Case Ground |



Case Dimensions

| Dimension | mm | | | Inches | | |
|-----------|------|------|------|--------|-------|-------|
| | Min | Nom | Max | Min | Nom | Max |
| A | 4.8 | 5.0 | 5.2 | 0.189 | 0.197 | 0.205 |
| B | 4.8 | 5.0 | 5.2 | 0.189 | 0.197 | 0.205 |
| C | | | 1.7 | | | 0.067 |
| D | | 2.08 | | | 0.082 | |
| E | | 1.17 | | | 0.046 | |
| F | | 0.64 | | | 0.025 | |
| G | 2.39 | 2.54 | 2.69 | 0.094 | 0.100 | 0.106 |

Matching Circuit to 50Ω



单击下面可查看定价，库存，交付和生命周期等信息

[>>Murata\(村田\)](#)