

- Ideal for Wireless Audio Applications in 869.00 MHz
- · Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Rugged, Hermetic, Low Profile F-11 Package
- Complies with Directive 2002/95/EC (RoHS Compliant)

SF869C

| ABSOLUTE MAXIMUM RATING (T_A =25°C) | | | | | | |
|--|-----------------|-------------------|------|--|--|--|
| Parameter | | Rating | Unit | | | |
| CW RF Power Dissipation | Р | 0 | dBm | | | |
| DC Voltage VDC Between Any Two Pins | V _{DC} | ±10 | V | | | |
| Operating Temperature Range | T _A | -10 ~ +60 | °C | | | |
| Storage Temperature Range | $T_{ m stg}$ | -40 ~ + 85 | °C | | | |

| ELECTRONIC CHARACTERISTICS | | | | | | |
|--|--------------------------------------|------------------|---------|---------|---------|--------|
| Parameter | | Sym | Minimum | Typical | Maximum | Unit |
| Nominal Frequency (at 25°C) (Center frequency between 3dB point) | | f _C | NS | 869.00 | NS | MHz |
| Insertion Loss | 868.00 870.00 MHz | IL | - | 4.5 | - | dB |
| Amplitude Ripple (p-p) | 868.00 870.00 MHz | Δα | - | 1.5 | - | dB |
| Absolute Attenuation | | | | | | |
| | 825.00 828.00 MHz | | 40 | - | - | dB |
| 845.00 849.00 MHz 889.00 892.00 MHz | | $lpha_{\it rel}$ | 35 | - | - | dB |
| | | | 35 | - | - | dB |
| | 910.00 913.00 MHz | | 40 | - | - | dB |
| Frequency Aging | Absolute Value during the First Year | fA | = | - | 10 | ppm/yr |
| DC Insulation Resistance Between any Two Pins | | - | 1.0 | - | - | ΜΩ |
| Input / Output Impedance (nominal) | | - | - | 50 | - | Ω |

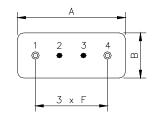
NS = Not Specified

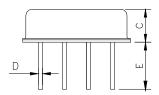
Notes:

- The frequency f_C is defined as the midpoint between the 3dB frequencies.
- 2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR ≤ 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, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
- Unless noted otherwise, specifications apply over the entire specified operating temperature range.
- The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice
- All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
- 7. For questions on technology, prices and delivery please contact our sales offices or email to sales@vanlong.com.



PACKAGE DIMENSIONS (F-11)





Electrical Connections

| Terminals | Connection | |
|-----------|--------------|--|
| 1 | Input/Output | |
| 2 | Case Ground | |
| 3 | Case Ground | |
| 4 | Output/Input | |

Package Dimensions

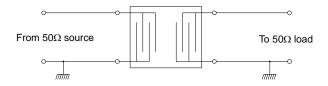
| Dimensions | Nom. (mm) | Tol. (mm) |
|------------|-----------|-----------|
| Α | 11.0 | ±0.3 |
| В | 4.5 | ±0.3 |
| С | 3.2 | ±0.3 |
| D | 0.45 | ±0.1 |
| E | 5.0 | ±0.5 |
| F | 2.54 | +0.2 |

MARKING

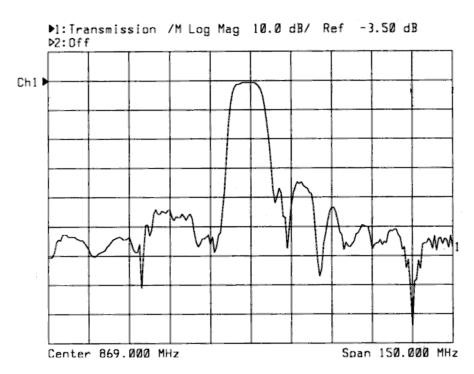


Ink Marking Color: Black or Blue

TEST CIRCUIT



TYPICAL FREQUENCY RESPONSE



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