| RF1432C |
| :---: |
| 319.500 MHz <br> SAW Filter |
| $\substack{\text { sm5050.8 case } \\ 5 \times 5}$ |


| Characteristic | Sym | Notes | Minimum | Typical | Maximum |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Center Frequency at $25^{\circ} \mathrm{C}$ Absolute Frequency <br>  Tolerance from 319.500 MHz | $\mathrm{f}_{\mathrm{C}}$ | 1, 2 | 319.420 |  | 319.580 | MHz |
|  | $\Delta \mathrm{f}_{\mathrm{C}}$ |  |  |  | $\pm 80$ | kHz |
| Insertion Loss | IL | 1 |  | 1.8 | 2.8 | dB |
| 3 dB Bandwidth | $\mathrm{BW}_{3}$ | 1, 2 | 500 | 600 | 800 | kHz |
| Rejection at $f_{\mathrm{c}}-21.4 \mathrm{MHz}$ (Imag <br>  at $\mathrm{f}_{\mathrm{c}}-10.7 \mathrm{MHz}$ (LO) <br>  Ultimate |  | 1 | 40 | 50 |  | dB |
|  |  |  | 40 | 50 |  |  |
|  |  |  |  | 80 |  |  |
| Operating Case Temperature <br> Turnover Temperature <br> Turnover Frequency <br> Frequency Temperature Coefficent | $\mathrm{T}_{\mathrm{C}}$ | 3, 4 | -40 |  | +85 | ${ }^{\circ} \mathrm{C}$ |
|  | $\mathrm{T}_{\mathrm{O}}$ |  | 25 | 40 | 55 | ${ }^{\circ} \mathrm{C}$ |
|  | $\mathrm{f}_{\mathrm{O}}$ |  |  | $\mathrm{f}_{\mathrm{C}}$ |  | MHz |
|  | FTC |  |  | 0.032 |  | $\mathrm{ppm} /{ }^{\circ} \mathrm{C}^{2}$ |
| Frequency Aging Absolute Value during the First Year | IfAI | 5 |  | $\leq 10$ |  | ppm/yr |
| $\begin{array}{ll} \hline \text { Impedance @ FC } & \text { INPUT } \mathrm{Z}_{\mathrm{IN}}=\mathrm{R}_{\mathrm{IN}} / / \mathrm{C}_{\mathrm{IN}} \\ & \text { OUTPUT } \mathrm{Z}_{\mathrm{OUT}}=\mathrm{R}_{\mathrm{OUT}} / / \mathrm{C}_{\text {OUT }} \end{array}$ | $\mathrm{Z}_{\text {IN }}$ | 1 | $3.97 \mathrm{k} \Omega / / 4.37 \mathrm{pF}$ |  |  |  |
|  | $\mathrm{Z}_{\text {OUT }}$ | 1 | $2.56 \mathrm{k} \Omega / / 4.27 \mathrm{pF}$ |  |  |  |
| Lid Symbolization (in addition to Lot and/or Date Codes) | 621 // DATECODE |  |  |  |  |  |

## 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 $50 \Omega$ 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, 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 3 dB frequencies.
3. Where noted, specifications apply over the entire specified operating temperature range.
4. The turnover temperature, $\mathrm{T}_{\mathrm{O}}$, is the temperature of maximum (or turnover) frequency, $\mathrm{f}_{\mathrm{O}}$. The nominal frequency at any case temperature, $\mathrm{T}_{\mathrm{C}}$, may be calculated from: $f=f_{o}\left[1-\operatorname{FTC}\left(T_{o}-T_{C}\right)^{2}\right]$.
5. Frequency aging is the change in fc with time and is specified at $+65^{\circ} \mathrm{C}$ or less. Aging may exceed the specification for prolonged temperatures above $+65^{\circ} \mathrm{C}$.

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.
7. One or more of the following U.S. Patents apply: $4,54,488,4,616,197$, and others pending.
8. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.


| Rating | Value | Units |
| :--- | :---: | :---: |
| Input Power Level | 10 | dBm |
| DC Voltage | 12 | VDC |
| Storage Temperature ${ }^{5}$ | -40 to +85 | ${ }^{\circ} \mathrm{C}$ |
| Soldering Temperature | (10 seconds $/ 5$ cycles max.) | 260 |
| ${ }^{\circ} \mathrm{C}$ |  |  |

## Electrical Connections

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



## Matching Circuit to $50 \Omega$



## 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 | 1.30 | 1.50 | 1.7 | 0.050 | 0.060 | 0.067 |
| D | 1.98 | 2.08 | 2.18 | 0.078 | 0.082 | 0.086 |
| E | 1.07 | 1.17 | 1.27 | 0.042 | 0.046 | 0.05 |
| F | 0.50 | 0.64 | 0.70 | 0.020 | 0.025 | 0.028 |
| G | 2.39 | 2.54 | 2.69 | 0.094 | 0.100 | 0.106 |

Optional Electrical Connections

## Matching Circuit to $50 \Omega$



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