

1842 MHz SAW Filter

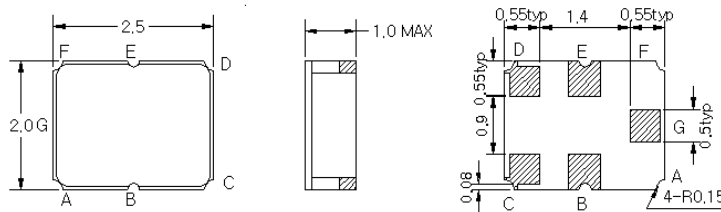
162971

Specifications

| Parameter | Unit | Min | Typical | Max |
|--|--------------------|------|----------|-----|
| Center Frequency (Fo) | MHz | - | 1842.5 | - |
| Insertion Loss within 1805 ~ 1880 MHz | DB | - | 2.8 | 4.0 |
| Source Impedance (single ended) ⁽¹⁾ | Ω | - | 50 | - |
| Load Impedance (balanced ended) ⁽¹⁾ | Ω | - | 200/18nH | - |
| Operating Temperature Range | $^{\circ}\text{C}$ | -20 | - | +75 |
| Amplitude Ripple within 1805 ~ 1880 MHz | dB _{p-p} | - | 0.7 | 1.5 |
| Attenuation: | | | | |
| D.C. ~ 1200 MHz | dB | 40 | 48 | - |
| 1200 ~ 1705 MHz | dB | 30 | 33 | - |
| 1705 ~ 1785 MHz | dB | 9 | 14.5 | - |
| 1920 ~ 1980 MHz | dB | 10 | 22.5 | - |
| 1980 ~ 2200 MHz | dB | 20 | 23.5 | - |
| 2200 ~ 3000 MHz | dB | 30 | 36 | - |
| 3000 ~ 6000 MHz | dB | 40 | 44 | - |
| Input/Output VSWR within 1805 ~ 1880 MHz | - | - | 2.0 | 2.5 |
| Maximum DC Voltage | V | - | - | 5 |
| Maximum Input Power | dBm | - | - | 12 |
| Symmetry in band (1805~1880 MHz) | | | | |
| Output Amplitude balance ($ S_{31} / S_{21} $) | dB | -1.8 | 0 | 1.4 |
| Output phase balance ($\Phi(s_{31})-\Phi(s_{21})+180$) | degree | -12 | 0 | 12 |

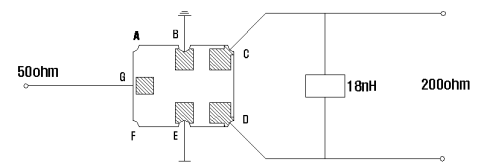
Notes: ⁽¹⁾ With Matching Network

Package Outline



| PIN Descriptions | |
|------------------|-----|
| IN | G |
| Out | C,D |
| Ground | B,E |

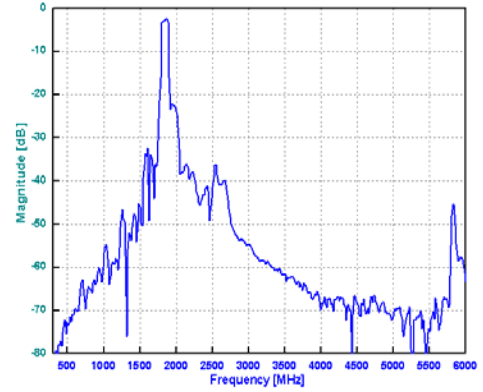
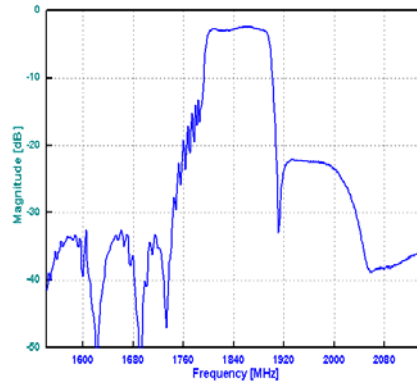
Testing Environment



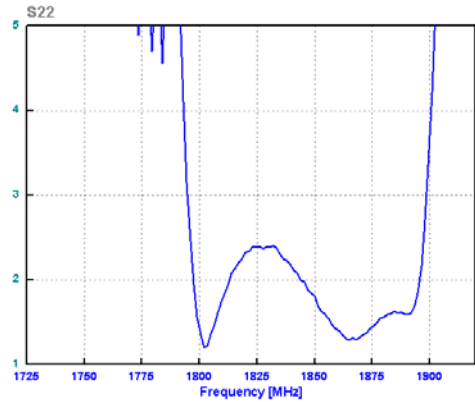
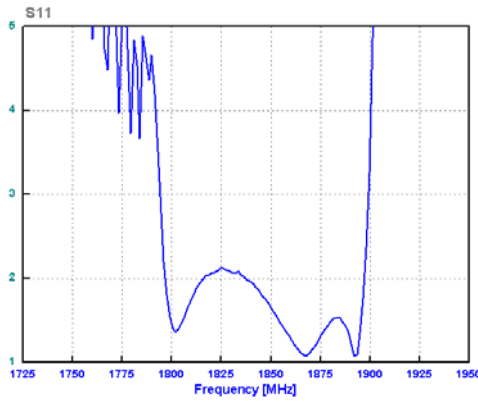
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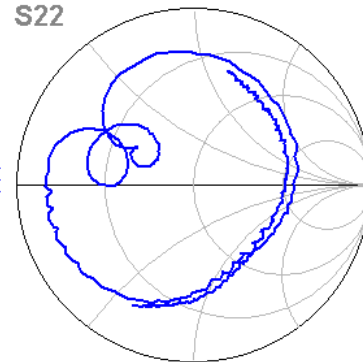
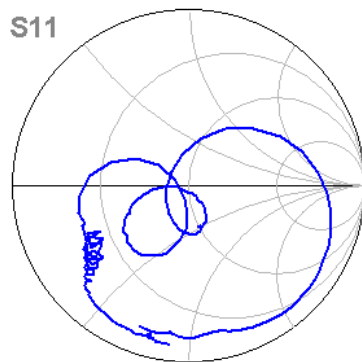
Frequency Response



VSWR



Smith Chart



SAW PRODUCTS

COM DEV