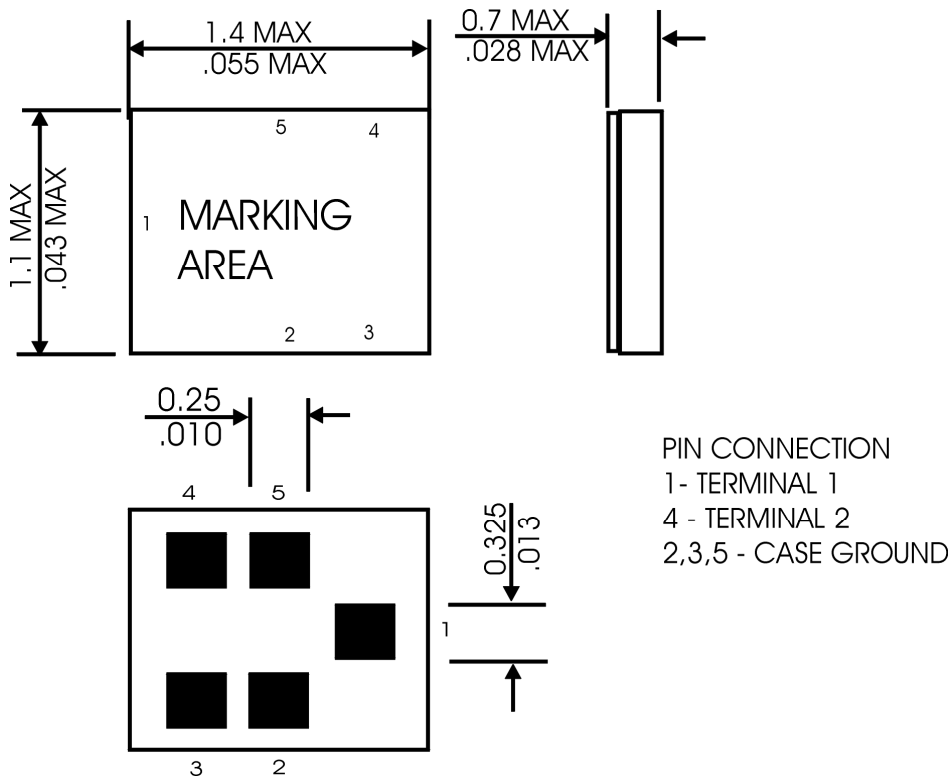


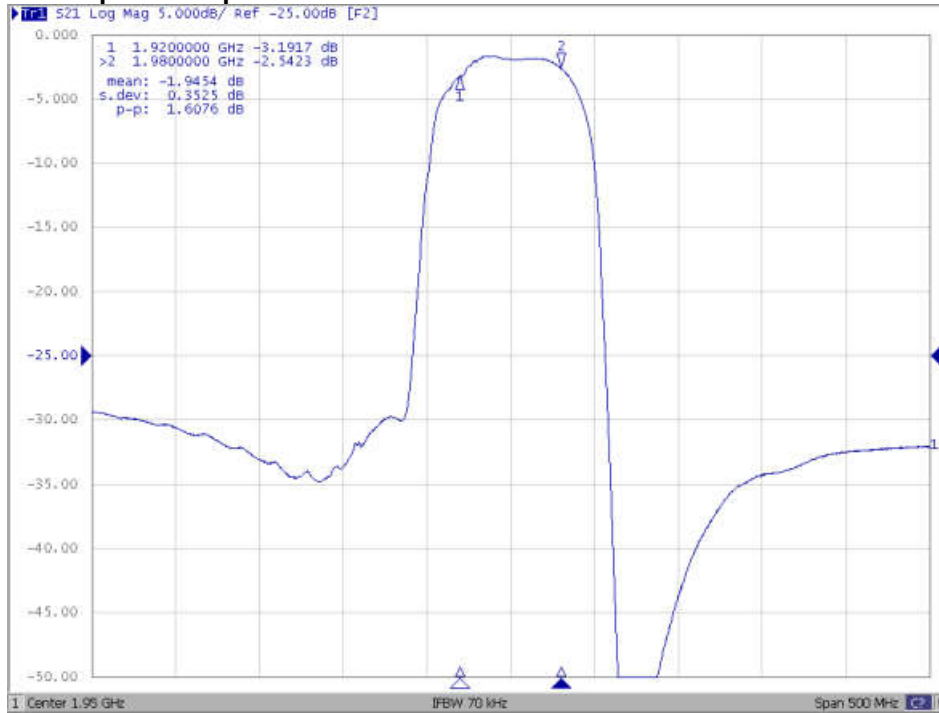
| Items                       | Specification       | Unit               |
|-----------------------------|---------------------|--------------------|
| Center frequency (Fo)       | 1950.00             | MHz                |
| Bandwidth                   | 60000               | kHz                |
| Insertion Loss in BW, Max   | 4.2                 | dB                 |
| Amplitude Ripple in BW, Max | 2.2                 | dB                 |
| Relative Attenuation        | 1135 MHz ~ 1145 MHz | 25 dB min          |
|                             | 1705 MHz ~ 1715 MHz | 25 dB min          |
|                             | 1805 MHz ~ 1880 MHz | 25 dB min          |
|                             | 2110 MHz ~ 2170 MHz | 30 dB min          |
|                             | 2300 MHz ~ 2360 MHz | 30 dB min          |
|                             | 2490 MHz ~ 2550 MHz | 30 dB min          |
|                             | 2680 MHz ~ 2740 MHz | 30 dB min          |
|                             | 3060 MHz ~ 3120 MHz | 30 dB min          |
| 3840 MHz ~ 3960 MHz         | 30 dB min           |                    |
| VSWR, Max                   | 2.6                 | ---                |
| Input Power, Max            | 10                  | dBm                |
| DC Voltage, Max             | 0                   | V                  |
| In/Out Impedance            | 50                  | $\Omega$           |
| Operation Temperature       | -20 to +75          | $^{\circ}\text{C}$ |
| Storage Temperature         | -30 to +85          | $^{\circ}\text{C}$ |

### Dimension

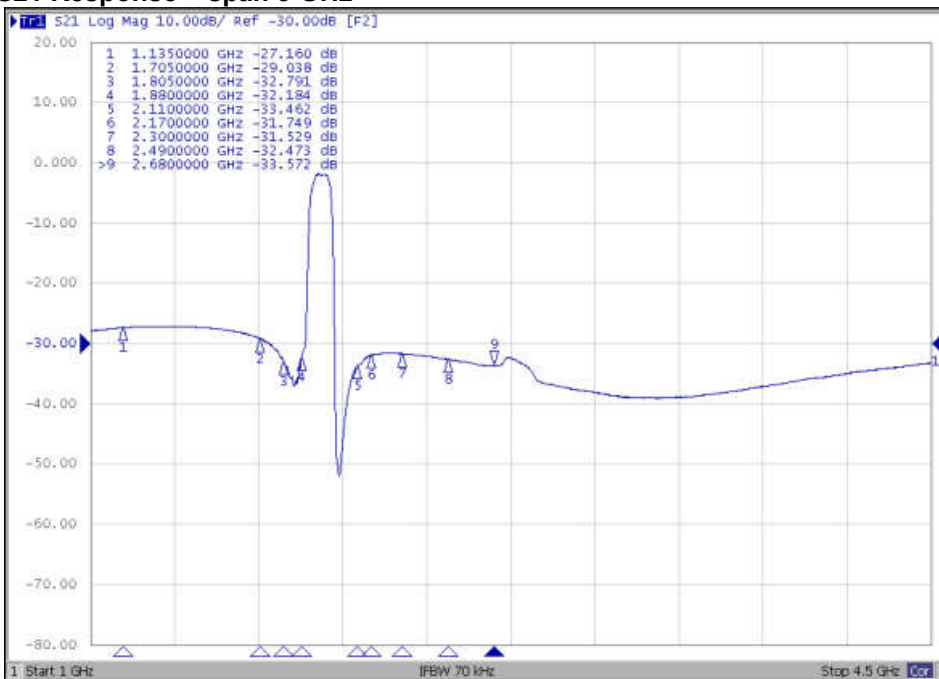


### Frequency Characteristics

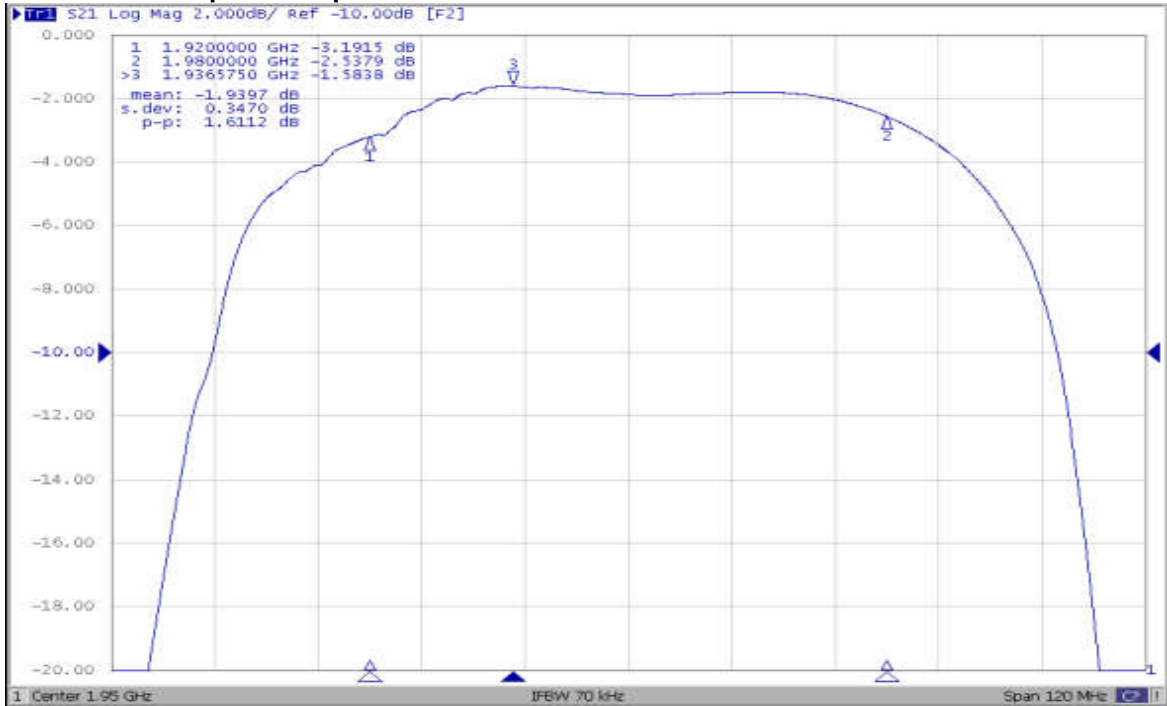
S21 Response – span 500 MHz



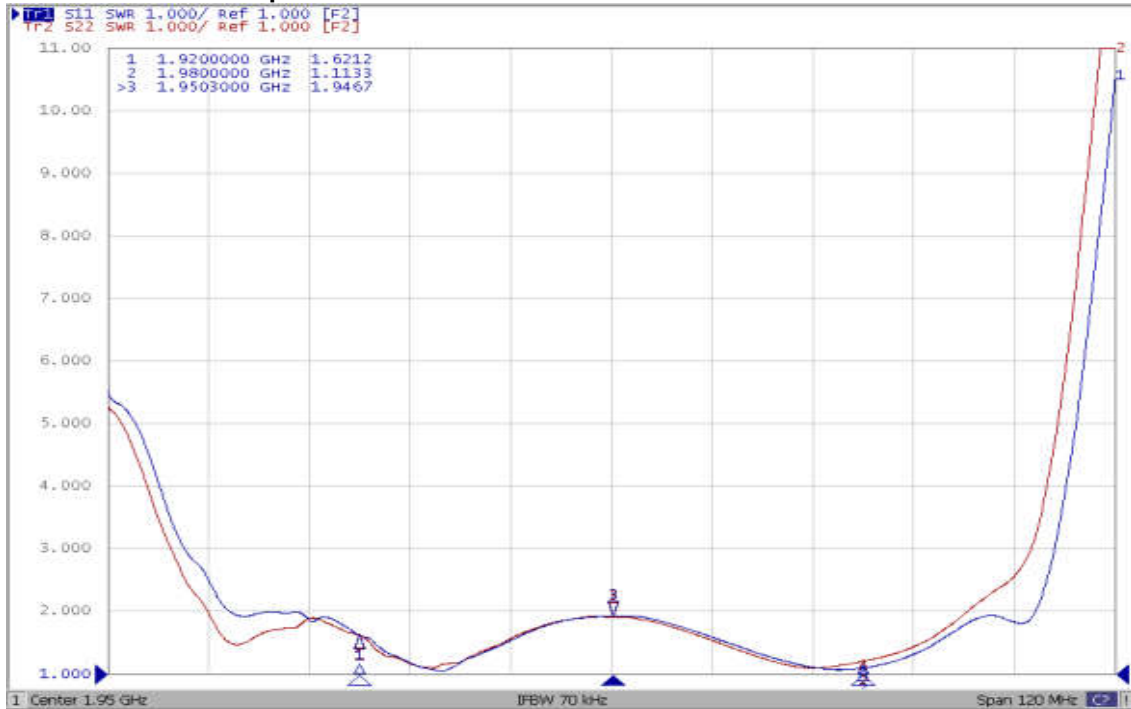
S21 Response – span 3 GHz



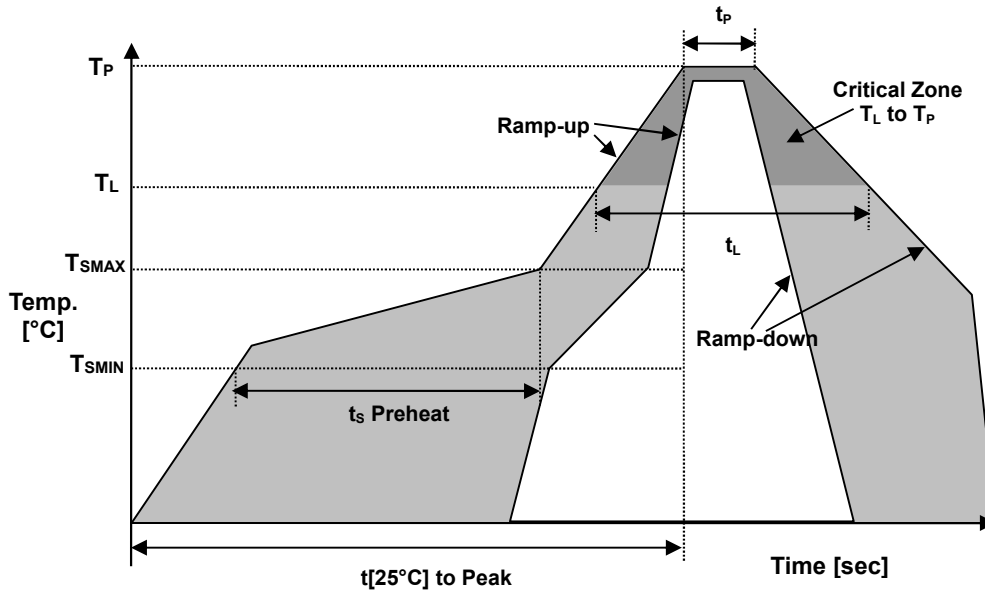
### S21 Response – span 120 MHz



### S21 VSWR – span 120 MHz



### REFLOW PROFILE



| Reflow profile                                 |                               |              |
|--|-------------------------------|--------------|
| Temperature Min Preheat                        | $T_{SMIN}$                    | 150°C        |
| Temperature Max Preheat                        | $T_{SMAX}$                    | 200°C        |
| Time ( $T_{SMIN}$ to $T_{SMAX}$ )              | $t_s$                         | 60-180 sec.  |
| Temperature                                    | $T_L$                         | 217°C        |
| Peak Temperature                               | $T_P$                         | 260°C        |
| Ramp-up rate                                   | $R_{UP}$                      | 3°C/sec max. |
| Ramp-down rate                                 | $R_{DOWN}$                    | 6°C/sec max. |
| Time within 5°C of Peak Temperature            | $t_p$                         | 10 sec.      |
| Time $t[25^\circ\text{C}]$ to Peak Temperature | $t[25^\circ\text{C}]$ to Peak | 480 sec.     |
| Time   | $t_L$                         | 60-150 sec.  |

### Environmental

| PARAMETER                  | VALUE     |
|----------------------------|-----------|
| MOISTURE SENSITIVITY LEVEL | 1         |
| REACH – SVHC               | Compliant |
| RoHS 2                     | 6/6       |

April 2016