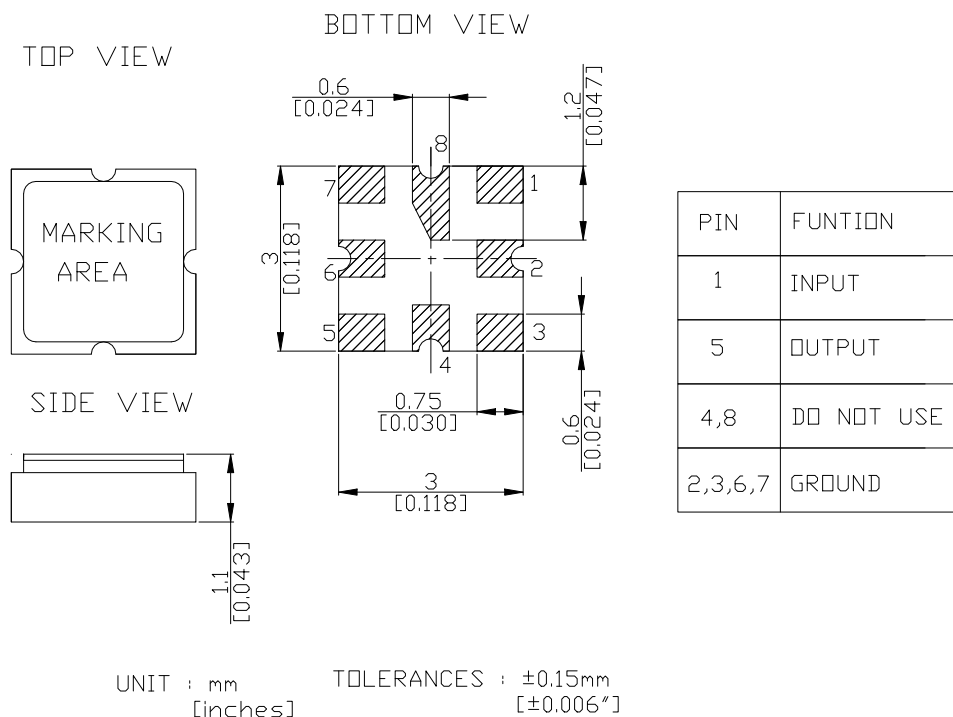
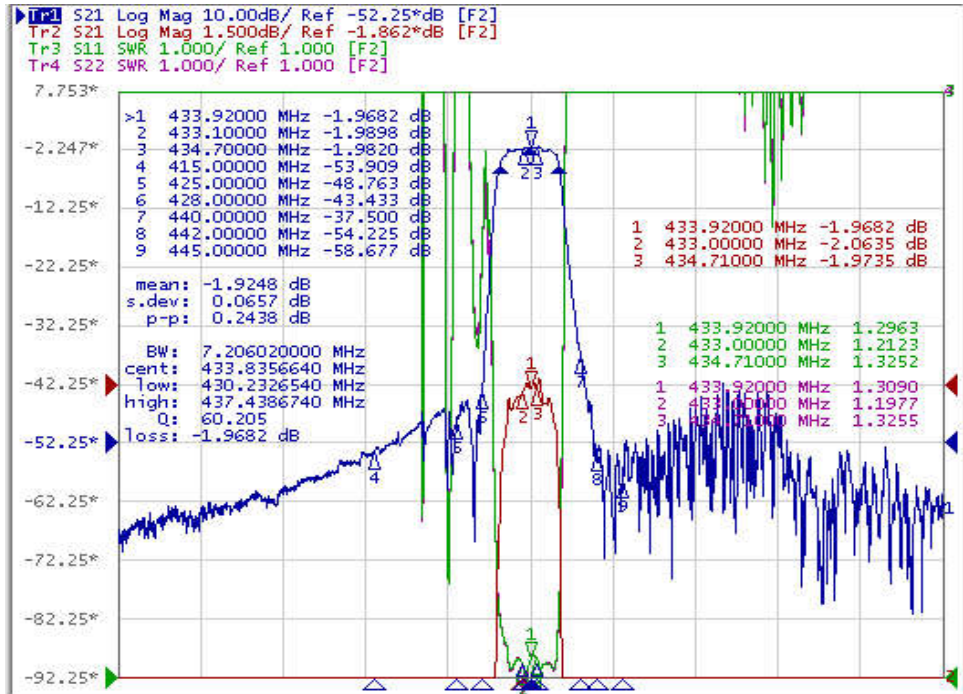


| Parameters                        |                     | Specification     | Unit               |
|-----------------------------------|---------------------|-------------------|--------------------|
| Center frequency (fo)             |                     | 433.920           | MHz                |
| Bandwidth                         |                     | 433.100 ~ 434.700 | MHz                |
| Insertion Loss in BW, typ / max   |                     | 2.0 / 3.2         | dB                 |
| Amplitude Ripple in BW, typ / max |                     | 0.25 / 1.3        | dB                 |
| VSWR in BW, typ / max             |                     | 1.35 / 2.0        | -                  |
| Attenuation,<br>min / typ         | 10 MHz ~ 400 MHz    | 55 / 58           | dB                 |
|                                   | 400 MHz ~ 415 MHz   | 45 / 52           | dB                 |
|                                   | 415 MHz ~ 425 MHz   | 42 / 48           | dB                 |
|                                   | 425 MHz ~ 428 MHz   | 21 / 48           | dB                 |
|                                   | 440 MHz ~ 442 MHz   | 12 / 37           | dB                 |
|                                   | 442 MHz ~ 445 MHz   | 28 / 43           | dB                 |
|                                   | 445 MHz ~ 452 MHz   | 40 / 54           | dB                 |
|                                   | 452 MHz ~ 750 MHz   | 30 / 40           | dB                 |
|                                   | 750 MHz ~ 2400 MHz  | 32 / 40           | dB                 |
|                                   | 2400 MHz ~ 3000 MHz | 12 / 16           | dB                 |
|                                   | 3000 MHz ~ 4000 MHz | 5 / 7.6           | dB                 |
| In/Out Impedance                  |                     | 50                | $\Omega$           |
| Input Power, max                  |                     | 14                | dBm                |
| Operating Temperature Range       |                     | -40 to +85        | $^{\circ}\text{C}$ |
| Storage Temperature Range         |                     | -40 to +85        | $^{\circ}\text{C}$ |

### Dimension

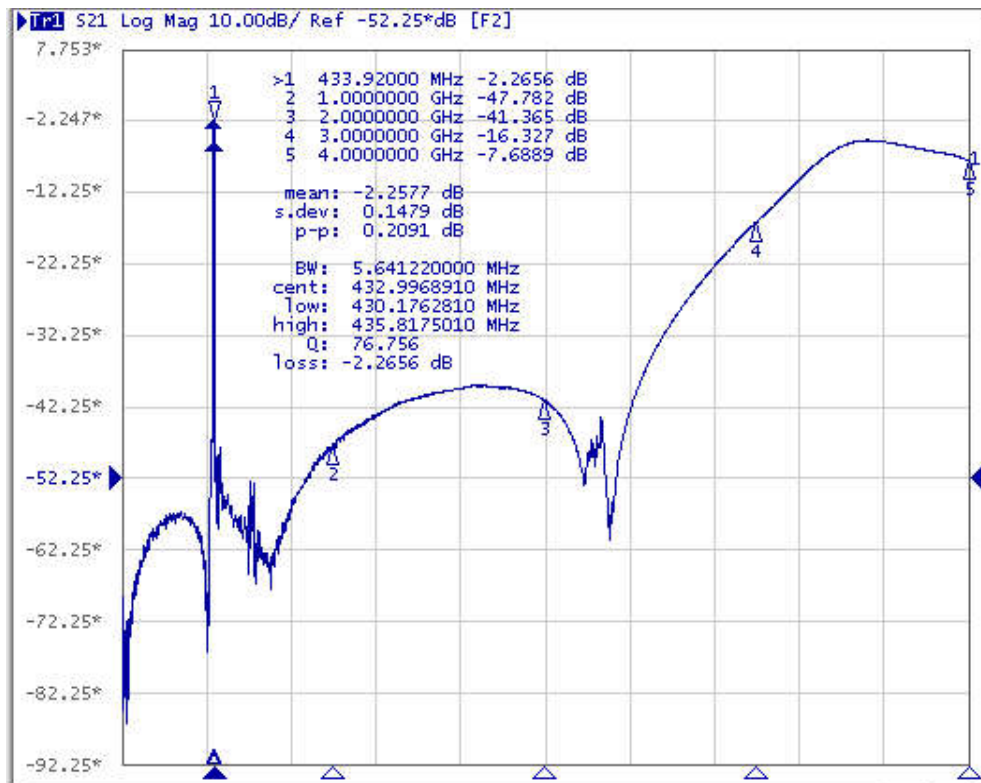


### Frequency Characteristics



Center:433.92MHz

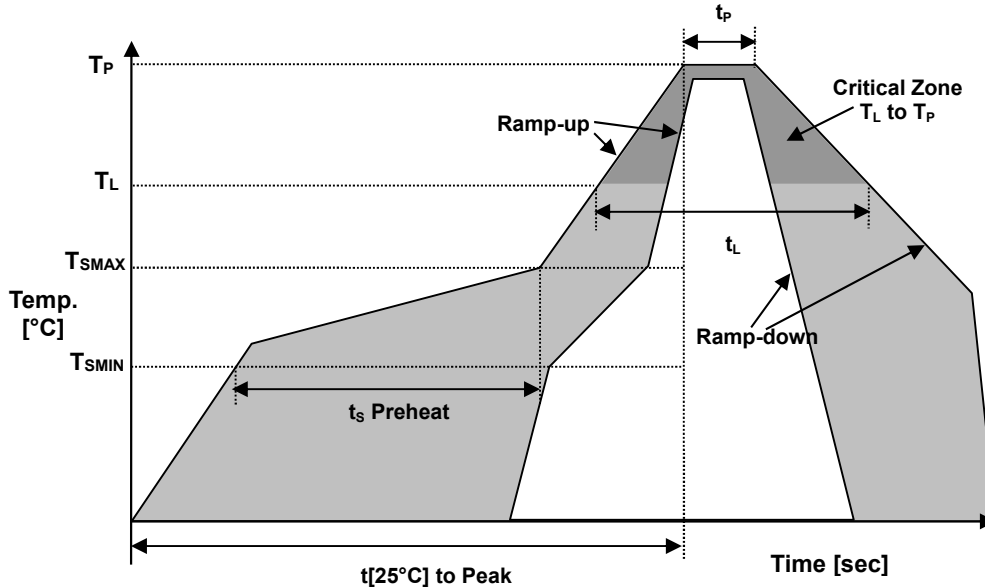
Span:100MHz



Start:300KHz

Stop:4GHz

### 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 [ $t_{25°C}$ ] to Peak Temperature | $t_{[25°C] \text{ to Peak}}$ | 480 sec.     |
| Time                                    | $t_L$                        | 60-150 sec.  |

### Environmental

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

April 2016