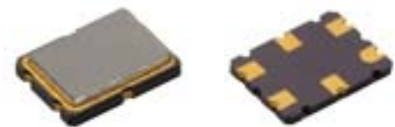
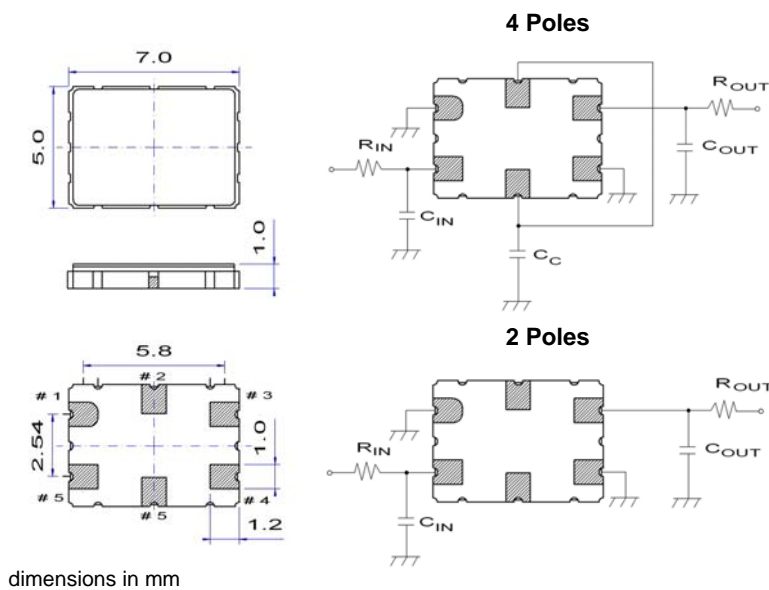


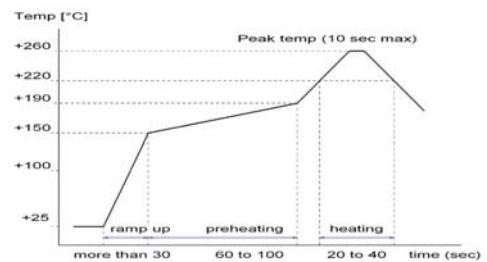
Ceramic packaged SMD MCF

| Type | Nominal Frequency [MHz] | Pole | Pass Band | | Attenuation Band | | Ripple max. [dB] | Insertion Loss [dB] | Attenuation Guaranteed | | Terminal Impedance $Z_{IN} = Z_{OUT}$ [Ω // pF // pF] |
|-----------|------------------------------|------|-----------|------------|------------------|----------|-----------------------|--------------------------|------------------------|--------------------|----------------------------------------------------------------------|
| | | | [dB] | [kHz] | [dB] | [kHz] | | | [dB] | [Fo ~ \pm kHz] | |
| 21S7A | 21.4000 | 2 | 3 | ± 3.75 | 18 | ± 18 | 1.0 | 1.5 | 50 | -910 \pm 10 | 850 // 6.0 |
| 21S7B | 21.4000 | 4 | 3 | ± 3.75 | 35 | ± 14 | 1.0 | 2.5 | 80 | -910 \pm 10 | 1000 // 4.5 Cc = 4.5 |
| 21S12B | 21.4000 | 4 | 3 | ± 6.0 | 30 | ± 20 | 1.0 | 2.5 | 80 | -910 \pm 10 | 1500 // 2.0 Cc = 8.0 |
| 21S15A | 21.4000 | 2 | 3 | ± 7.5 | 15 | ± 25 | 1.0 | 1.5 | 50 | -910 \pm 10 | 1500 // 2.0 |
| 21S15B | 21.4000 | 4 | 3 | ± 7.5 | 35 | ± 25 | 1.0 | 2.5 | 80 | -910 \pm 10 | 1500 // 5.0 Cc = 5.0 |
| 21S30A | 21.4000 | 2 | 3 | ± 15.0 | 15 | ± 45 | 1.0 | 1.5 | 45 | -910 \pm 10 | 3000 // 0 |
| 21S30B | 21.4000 | 4 | 3 | ± 15.0 | 35 | ± 50 | 1.0 | 2.5 | 80 | -910 \pm 10 | 3000 // -1.5 Cc = 6.0 |
| 32S8A | 32.7680 | 2 | 3 | ± 4.0 | 40 | ± 40 | 1.0 | 2.0 | 60 | -910 \pm 10 | 650 // 4.5 |
| 38S8AF | 38.4000 | 2 | 3 | ± 4.0 | 40 | ± 40 | 1.0 | 2.0 | 65 | -910 \pm 10 | 650 // 4.5 |
| 45S7BF | 45.0000 | 4 | 3 | ± 3.75 | 30 | ± 12 | 1.0 | 4.0 | 80 | -910 \pm 10 | 550 // 2.5 Cc = 15.5 |
| 45S15BF | 45.0000 | 4 | 3 | ± 7.5 | 35 | ± 25 | 1.0 | 3.0 | 80 | -910 \pm 10 | 900 // 2.0 Cc = 7.0 |
| 45S12BF | 45.0000 | 4 | 3 | ± 6.0 | 30 | ± 20 | 1.0 | 3.0 | 80 | -910 \pm 10 | 950 // 1.2 Cc = 8.0 |
| 45S12BF10 | 45.1000 | 4 | 3 | ± 6.0 | 30 | ± 20 | 1.0 | 3.0 | 80 | -910 \pm 10 | 950 // 1.2 Cc = 8.0 |
| 45S20BF | 45.0000 | 4 | 3 | ± 10.0 | 25 | ± 25 | 1.0 | 3.0 | 80 | -910 \pm 10 | 1'000 // 1.6 Cc = 5.0 |
| 45S30BF | 45.0000 | 4 | 3 | ± 15.0 | 30 | ± 50 | 1.0 | 3.0 | 80 | -910 \pm 10 | 1500 // 0.7 Cc = 3.0 |
| 45S34AF | 45.0000 | 4 | 3 | ± 17.0 | 15 | ± 60 | 1.0 | 2.5 | 65 | -910 \pm 10 | 800 // 2.9 |
| 70S15A | 70.0000 | 2 | 3 | ± 7.5 | 18 | ± 20 | 1.0 | 3.0 | 50 | -910 \pm 10 | 1500 // -1 |
| 73S13B | 73.0000 | 4 | 3 | ± 6.5 | 30 | ± 20 | 1.0 | 4.0 | 70 | -910 \pm 10 | 1700 // -0.6 Cc = -1.3 |
| 90S7A | 90.0000 | 2 | 3 | ± 10.0 | 15 | ± 35 | 1.0 | 4.0 | 30 | -910 \pm 10 | 1800 // -0.8 |
| 92S6A | 92.1600 | 2 | 3 | ± 3.0 | 30 | ± 30 | 1.0 | 3.0 | 30 | -910 \pm 10 | 2000 // -1 |

| | | | |
|--------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|--|
| operating temperature range | -20 ~ +70 °C -30 ~ +75 °C -40 ~ +85 °C | commercial application on request industrial application | |
| packaging units for SMD type | tape & reel: | 500 or 1k pieces | |
| other nominal frequencies , pass band and attenuations on request | | | |



Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

04 Feb. 11