

SURFACE MOUNT CRYSTAL UNIT

| SPECIFICATIONS | SCM309SA | SCM309SB | SCM309S |
|------------------------------|---|----------------|----------------|
| Nominal Frequency | 3.5MHz to 70MHz | | |
| Frequency Tolerance | ±30ppm | ±50ppm @ 25°C | ±100ppm |
| Frequency Stability | ±30ppm | ±50ppm | ±100ppm |
| Operating Temperature Range | -10°C to +60°C | -10°C to +60°C | -10°C to +70°C |
| Storage Temperature Range | -55°C to +125°C | | |
| Load Capacitance | 16pF | | |
| Equivalent Series Resistance | SEE TABLE 1 | | |
| Drive Level | 100uW | | |
| Shunt Capacitance | 7pF Maximum | | |
| Aging (First Year at 25±3°C) | ±5ppm/year | | |
| Shock Resistance | ±5ppm | | |
| Insulation Resistance | 500MOhms min. at DC100±15V | | |
| Reflow Condition | 240°C ±5°C , 10 seconds Maximum | | |
| Tape & Reel | Option | | |
| Hermeticity of Seal | 1 × 10 ⁻² uPa · m ³ /sec. | | |

| Frequency Range | Mode of Oscillation | E.S.R |
|----------------------|---------------------|----------|
| 3.500 to 3.999 MHz | Fundamental | 200 Ohms |
| 4.000 to 5.999 MHz | Fundamental | 150 Ohms |
| 6.000 to 9.999 MHz | Fundamental | 100 Ohms |
| 10.000 to 11.999 MHz | Fundamental | 60 Ohms |
| 12.000 to 30.000 MHz | Fundamental | 50 Ohms |
| 30.000 to 35.999 MHz | 3rd Overtone | 100 Ohms |
| 36.000 to 70.000 MHz | 3rd Overtone | 80 Ohms |

TABLE 1

