



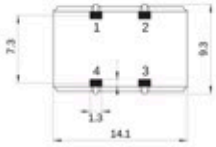
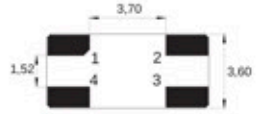
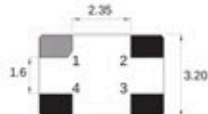
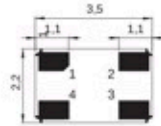


## SMT Ceramic Clock Oscillators and VCXO 100% Lead Free

Type MCSO	Type MCSO1	Type MCSO2	Type MCSO6
Package 14 x 9 mm	Package 8 x 3.7 mm	Package 5 x 3.2 mm	Package 3.2 x 2.5 mm
			
 h=2.4 mm	 h=2 mm	 h=1.6 mm	 h=1.2 mm

Standard						
Product Type	Package size (mm)	Frequency	Supply Voltage	Temperature Range	Features	Remark
MCSO	14 x 9	10 kHz to 225 MHz	2.5 / 3.3 / 5 V	-55 to 125°C		
MCSOF	14 x 9	10 kHz to 225 MHz	2.5 / 3.3 V	-55 to 125°C	Low Jitter	
MCSO1	8 x 3.7	10 kHz to 225 MHz	1.8 / 2.5 / 3.3 / 5 V	-55 to 125°C		
MCSO1F	8 x 3.7	10 kHz to 225 MHz	1.8 / 2.5 / 3.3 V	-55 to 125°C	Low Jitter	
MCSO2	5 x 3.2	10 kHz to 225 MHz	1.8 / 2.5 / 3.3 / 5 V	-55 to 125°C		
MCSO2F	5 x 3.2	10 kHz to 225 MHz	1.8 / 2.5 / 3.3 V	-55 to 125°C	Low Jitter	
MCSO6	3.2 x 2.5	10 kHz to 155 MHz	2.5 / 3.3 / 5 V	-55 to 125°C		
MCSO6F	3.2 x 2.5	10 kHz to 155 MHz	2.5 / 3.3 V	-55 to 125°C	Low Jitter	
High Temperature						
MCSO1E	8 x 3.7	10 kHz to 100 MHz	2.5 / 3.3 / 5 V	-55 to 210°C	Very Harsh Environment	High Temperature
MCSO1EL	8 x 3.7	32,768 kHz	2.5 / 3.3 / 5 V	-55 to 200°C	Consumption = 100 µA	Very Harsh Environment
MCSO2E	5 x 3.2	10 kHz to 100 MHz	2.5 / 3.3 / 5 V	-55 to 210°C	Very Harsh Environment	High Temperature
MCSO2EL	5 x 3.2	32,768 kHz	2.5 / 3.3 / 5 V	-55 to 200°C	Consumption = 100 µA	High Temperature
MCSO2EU	5 x 3.2	32,768 kHz	2.5 / 3.3 V	-55 to 175°C	Consumption = 20 µA	High Temperature
MCSO6E	3.2 x 2.5	10 kHz to 60 MHz	2.5 / 3.3 / 5 V	-55 to 210°C	Very Harsh Environment	High Temperature

VCXO						
VCXO2E	5 x 3.2	5 to 40 MHz	3.3 V	-55 to 210°C	APR +/- 30 to +/- 130 ppm	High Temperature

data sheet for additional details on request

Applications
<p>Products are screened and specially tested</p> <ul style="list-style-type: none"> <li>• Avionics</li> <li>• Airborne Equipment</li> <li>• Down Hole and Well Drilling</li> <li>• Geothermal Equipment</li> <li>• Fire fighter Equipment</li> </ul>

Description
<ul style="list-style-type: none"> <li>- This SMT oscillator in ceramic package has been specially designed for surface mount using vapor phase soldering, epoxy assembling technology and standard reflow soldering.</li> <li>- All oscillators with quartz crystal in fundamental mode and a frequency range of up to 225 MHz.</li> <li>- Specially designed for harsh environmental shock and vibration.</li> <li>- Extremely wide operating temperature ranges up to 210°C, with a ultra low internal moisture level.</li> <li>- The stability is specified during 10 years.</li> </ul>

