



- Cost effectiveLow profile
- ► Pb Free/RoHS Compliant

CSM-3X Quartz Crystal

The CSM-3X is the miniature low profile resistance weld type SMD quartz crystal. Reduces footprint of CSM-7X (HC-49USX SMD) by 50%.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS		CSM-3X		UNITS	
PARAMETERS	CONDITIONS	MIN	TYP	MAX		
Frequency Range	fo	6.000		40.000	MHz	
Frequency Tolerance	at +25°C			± 30	ppm	
Frequency Stability ref @+25°C	Standard -10 to +70°C			± 50	ppm	
Shunt Capacitance	Со			7	pF	
Load Capacitance (CL)	Specify in P/N	10	20	Series	pF	
Drive Level				100	μW	
Operating Temperature	Standard	-10		+70	°C	
Storage Temperature		-40		+85	°C	
Aging (First Year)	@ +25°C ±3°C			±5	ppm	

EOUIVALENT SERIES RESISTANCE/MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω	FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω
6.000 ~ 11.999	Fundamental	200	16.000 ~ 29.999	Fundamental	50
12.000 ~ 15.999	Fundamental	60	30.000 ~ 40.000	Fundamental	40

PACKAGE DIMENSIONS (mm)



