

- ▶ 2.6 mm Height
- ▶ Industry Std. Footprint
- ▶ Pb Free/RoHS Compliant

CSM-7SSX

Low Profile SMD Crystal



OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	CSM-7SSX			UNITS
		MIN	TYP	MAX	
Frequency Range		3.57		50.000	MHz
Frequency Tolerance	at +25°C			± 30	ppm
Frequency Stability	-10 to +70°C			± 50	ppm
Shunt Capacitance				5	pF
Load Capacitance	Specify in P/N	10	20	Series	pF
Drive Level				500	µW
Operating Temperature		-10		+70	°C
Storage Temperature		-40		+105	°C
Aging (Per Year)	@ +25°C ±3°C			±5	ppm

EQUIVALENT SERIES RESISTANCE/MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω	FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω
3.57 ~ 4.999	Fundamental	150	13.000 ~ 19.999	Fundamental	50
5.000 ~ 5.999	Fundamental	120	20.000 ~ 30.000	Fundamental	40
6.000 ~ 6.999	Fundamental	100	26.000 ~ 39.999	3rd Overtone	100
7.000 ~ 8.999	Fundamental	80	40.000 ~ 50.000	3rd Overtone	80
9.000 ~ 12.999	Fundamental	60			

DIMENSIONS (mm)



Figure 1) Top, Side and Bottom views



Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-200-20-5PVX

ECS - Frequency Abbreviation - Load Capacitance - Package

200 = 20.000 MHz
See P/N Guide

20 = 20 pF
S=Series

5PVX = CSM-7SSX

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ECS:

[ECS-98.3-20-5PV-TR](#) [ECS-250-20-5PV-TR](#) [ECS-240-20-5PV-TR](#) [ECS-245.7-20-5PV-TR](#) [ECS-200-20-5PV-TR](#)
[ECS-120-32-5PV-TR](#) [ECS-60-20-5PV-TR](#) [ECS-80-20-5PV-TR](#) [ECS-40-20-5PV-TR](#) [ECS-120-18-5PV-TR](#) [ECS-110.5-](#)
[20-5PV-TR](#) [ECS-100-20-5PV-TR](#) [ECS-184-20-5PV-TR](#) [ECS-143-20-5PV-TR](#) [ECS-147.4-20-5PV-TR](#) [ECS-122.8-20-](#)
[5PV-TR](#) [ECS-160-20-5PV-TR](#) [ECS-35-18-5PV-TR](#) [ECS-160-20-5PVX-TR](#) [ECS-200-20-5PVX-TR](#) [ECS-110.5-20-](#)
[5PVX-TR](#) [ECS-122.8-20-5PVX-TR](#) [ECS-184-20-5PVX-TR](#) [ECS-120-18-5PVX-TR](#) [ECS-40-20-5PVX-TR](#) [ECS-240-20-](#)
[5PVX-TR](#) [ECS-143-20-5PVX-TR](#) [ECS-35-18-5PVX-TR](#) [ECS-98.3-20-5PVX-TR](#) [ECS-36-20-5PVX-TR](#) [ECS-250-20-](#)
[5PVX-TR](#) [ECS-60-20-5PVX-TR](#) [ECS-270-20-5PVX-TR](#) [ECS-80-20-5PVX-TR](#) [ECS-100-20-5PVX-TR](#)