

CSM-7XDU SMD CRYSTAL

ECS INC

The CSM-7XDU is the widest temperature range version of our standard CSM-7X crystal.

Request a Sample

CSM-7XDU SMD CRYSTAL

- -55 ~ +125°C Temp Range
- Low Profile
- Industry Standard Footprint
- Pb Free/RoHS Compliant

DIMENSIONS (mm)

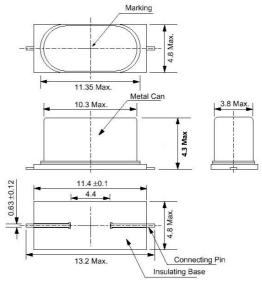


Figure 1) Top, Side, Bottom, and End

Crystal is symmetrical, pin 1 & 2 are interchangeable.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	C	UNITS		
		MIN	TYP	MAX	
Frequency		3.57		70.000	MHz
Frequency Tolerance	@ +25°C			± 30	ppm
Frequency Stability -55 ~ +125°C				± 100	ppm
Shunt Capacitance	Со			7	pF
Load Capacitance	Specify in P/N	10	20	Series	рF
Drive Level	DL			500	μW
Operating Temperature	Topr	-55		+125	°C
Storage Temperature	Tstg	-55		+125	°C
Aging (First Year)	@ +25°C ±3°C			±5	ppm

EQUIVALENT SERIES RESISTANCE/MODE OF OSCILLATION

Frequency (MHz)	ESR Ω Max.	Mode of Osc.
3.57 ~ 4.999	150	Fundamental
5.000 ~ 5.999	80	Fundamental
6.000 ~ 6.999	70	Fundamental
7.000 ~ 8.999	60	Fundamental
9.000 ~ 12.999	50	Fundamental
13.000 ~ 19.999	40	Fundamental
20.000 ~ 40.000	30	Fundamental
40.000 ~ 70.000	80	3 rd Overtone

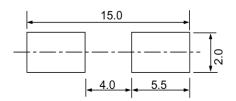


Figure 2) Suggested land

PART NUMBERING GUIDE: Example ECS-200-20-5PXDU-TR

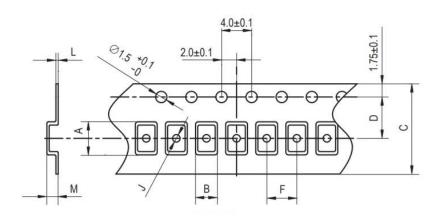
ECS -	FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	Stability	Temperature	PACKAGING
ECS	200 = 20.000 MHz See P/N Guide	20 = 20 pF 10 = 10 pF S = Series	5PX = 4.3 mm	D= ±100 ppm	U = -55 ~ +125°C	TR = Tape & Reel 1K/Reel

Rev.2017





POCKET TAPE DIMENSIONS (mm)



Α	В	С	D	F	J	L	М	Reel Dia.	Qty/Reel
15.4	5.3	24.0	11.5	12.0	1.7	0.4	4.4	300	1000pcs

SOLDER PROFILE
Peak solder Temp +260°C Max 10 sec Max.
2 Cycles Max.
MSL 1, Lead Finish Sn/Cu Matte

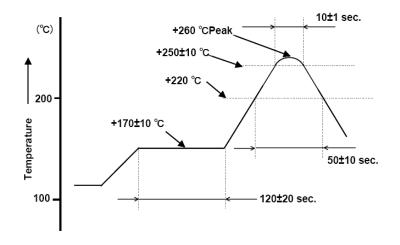


Figure 1) Suggested Reflow Profile

Mouser Electronics

Authorized Distributor

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

ECS:

ECS-240-20-5PXDU-TR ECS-122.8-20-5PXDU-TR ECS-36-20-5PXDU-TR ECS-35-18-5PXDU-TR ECS-250-20-5PXDU-F-TR ECS-245.7-20-5PXDU-TR ECS-160-20-5PXDU-TR ECS-270-20-5PXDU-F-TR ECS-40-20-5PXDU-TR ECS-98.3-20-5PXDU-TR ECS-110.5-20-5PXDU-TR ECS-100-20-5PXDU-TR ECS-80-20-5PXDU-TR ECS-143-20-5PXDU-TR ECS-200-20-5PXDU-TR ECS-120-32-5PXDU-TR ECS-60-20-5PXDU-TR ECS-184-20-5PXDU-TR ECS-147.4-20-5PXDU-TR ECS-120-18-5PXDU-TR ECS-120-18-5PXDU-TR ECS-120-18-5P-TR ECS-250-14-5P-DN-TR ECS-250-18-5P-TR ECS-250-20-5P-DN-TR ECS-55-5P-TR ECS-180-S-5P-DN-TR ECS-250-18-5P-TR