

ECS-CTE SMD Ceramic Resonator

MIN

8.00

Request a Sample

ECS-CTE

MAX

12.00

TYP

ECS

INTERNATIONAL®

UNITS

MHz

INC

The ECS-CTE Series miniature SMD ceramic resonator includes built in capacitors for reduced component count. The SMD Ceramic resonator is a low cost frequency control solution when absolute frequency accuracy is not important.

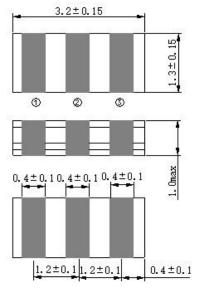
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

CONDITIONS



- 3.2 x 1.3 mm package
- Industry Standard footprint
- Extended Temp. Range
- Built-in Caps

DIMENSIONS (mm)



	Frequency Tolerance	@ +25°C			± 0.5	%
	Frequency Stability	-40 ~ +85°C			± 0.2	%
	Equivalent Series Resistance (ESR)				40	Ω
	Built-In Capacitors * (±20% Tolerance)	Specify in P/N		15		pF
	Withstanding Voltage	DC, 1 Min			50	V
	Voltago Pating	DC Voltage			6	V
	Voltage Rating	AC Voltage			15	Vp-р
	Insulation Resistance	10V, 1 Min.	500			MΩ
	Operating Temperature	Topr	-40		+85	°C
	Storage Temperature	Tstg	-55		+85	°C
8	Aging (10 Years)	@ +25°C ±3°C			±0.2	%
			÷			¢

PAD CONNECTIONS					
1	In/Out				
2	Gnd				
3	Out/In				

PARAMETERS

Frequency

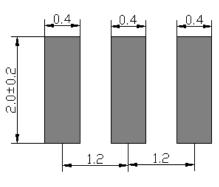


Figure 2) Suggested Land Pattern

Figure 1) Top, Side, and Bottom views

PART NUMBERING GUIDE: Example ECS-CTE-10.00-15-TR

ECS -CTE	FREQUENCY	Built In CAPACITANCE	PACKAGING	
	10.00 = 10.000 MHz *See Developed Frequencies Pg. 2	Standard 15 = 15 pF 10 = 10 pF 22 = 22 pF 30 = 30 pF	TR = Tape & Reel 3K/Reel	
ECS for availability of non-developed es/non standard cap values.		33 = 33 pF		

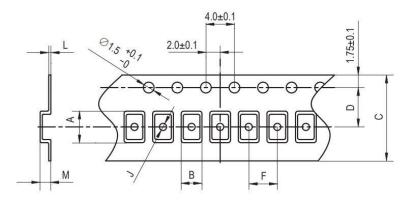
Rev.2020



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POCKET TAPE DIMENSIONS (mm)



А	В	С	D	F	J	L	М	Reel Dia.	Qty/Reel
3.4	1.5	8.0	3.5	4.0	1.1	0.25	1.3	180	3000

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

DEVLOPED FREQUENCIES					
8.00 MHz					
10.00 MHz					
12.00MHz					

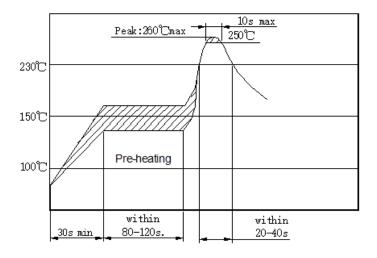


Figure3) Suggested Reflow Profile



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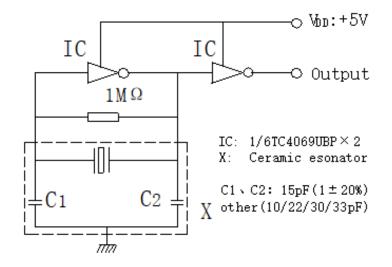


Figure4) Test Circuit

Note: ECS does not approve the use of it's products in Automotive, Military, Avionics, Life Sustaining or Life Support systems or any other related medical applications without written approval from ECS Inc.

Mouser Electronics

Authorized Distributor

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ECS:

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