

ECS-CTE SMD Ceramic Resonator

MIN

8.00

500

-40

-55

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

CONDITIONS

@ +25°C

-40 ~ +85°C

Specify in P/N

DC, 1 Min

DC Voltage

AC Voltage

10V, 1 Min.

Topr

Tstg

@ +25°C ±3°C

UNITS

MHz

%

%

Ω

pF

V

V

Vp-p

 $M\Omega$

°C

°C

%

Rev.2020

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.

Request a Sample

ECS-CTE

15

MAX

12.00

 ± 0.5

 ± 0.2

40

50

6

15

+85

+85

±0.2

TYP



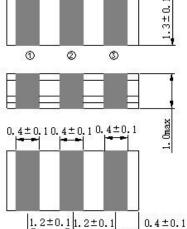


- 3.2 x 1.3 mm package
- Industry Standard footprint
- Extended Temp. Range

3.2±0.15

• Built-in Caps

DIMENSIONS (mm)



	Π
	П
	Ш
	Ш
	Н

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

PARAMETERS

Frequency Tolerance

Frequency Stability

Equivalent Series

Resistance (ESR) **Built-In Capacitors ***

(±20% Tolerance) Withstanding Voltage

Voltage Rating

Insulation Resistance

Storage Temperature

Aging (10 Years)

Operating Temperature

Frequency

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

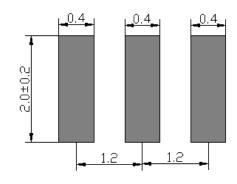


Figure 2) Suggested Land Pattern

Figure 1) Top, Side, and Bottom views

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

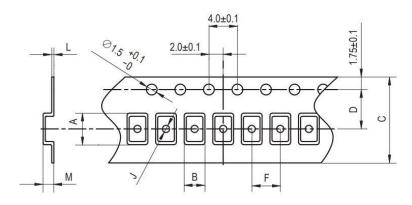
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POCKET TAPE DIMENSIONS (mm)



Α	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

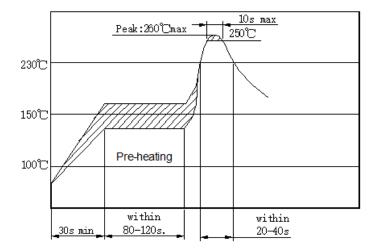


Figure3) Suggested Reflow Profile



ECS-CTE SMD Ceramic Resonator



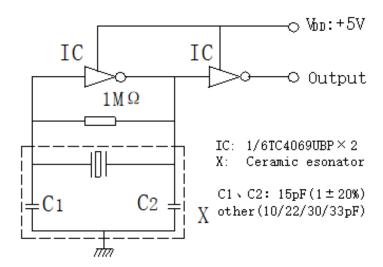


Figure4) Test Circuit

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.

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