

3.2 x 1.3 x 1.0mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



3.2 x 1.3 x 1.0 mm

AWS-CE

Moisture Sensitivity Level (MSL) – This product is not Moisture Sensitive - MSL = 1

RoHS/RoHS II Compliant

Pb in ceramic, exemption (7c-I)

FEATURES:

- Low resonant impedance

APPLICATIONS:

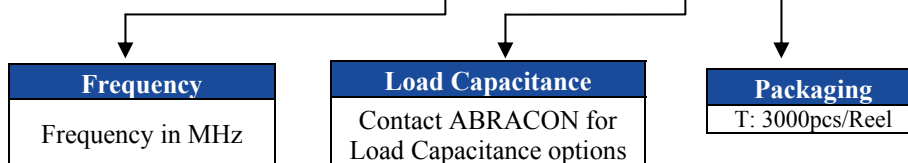
- Remote controls, Microprocessor clocks, DVD & CD-ROMs, Electric appliances
- Consumer electronics

STANDARD SPECIFICATIONS:

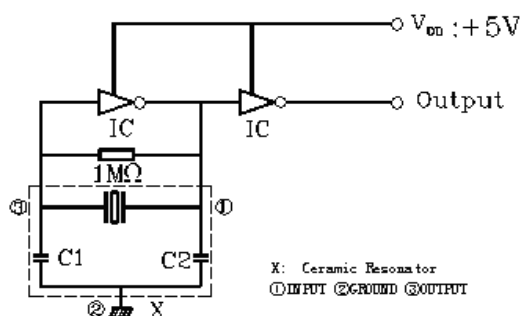
Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.00		12.00	MHz	
Resonant Impedance (Ro)			40	Ω	
Load Capacitance (C1=C2, for test circuit)	12	15	18	pF	
Frequency Tolerance @25 °C	-0.5		+0.5	%	
Frequency Stability (-25°C to +85°C)	-0.3		+0.3	%	
Withstanding Voltage		50		V	DC , 1 min
Rating Voltage	(1) D.C.Voltage		+6	V	
	(2) A.C. Voltage		15	Vp-p.	
Insulation Resistance	100			M Ω	10V, 1min
Operation Temperature	-25		+85	°C	
Storage Temperature	-55		+85	°C	
Aging Rate (Fosc) (10 years)	-0.2		+0.2	%	

OPTIONS AND PART IDENTIFICATION

AWS-CE - XX.XX CE - C□□ - □



TEST CIRCUIT:



X: Ceramic Resonator
C1=C2: 15pF ±20%
1: INPUT 2: GROUND 3: OUTPUT

Parts shall be measured under a condition (Temp.: 20±15°C, Humidity: 65±20% R.H.) unless the standard condition (Temp: 25±3°C, Humidity: 65±10% R.H.) is regulated to test.

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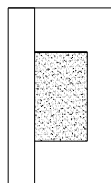
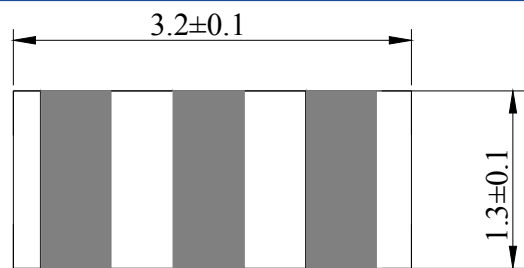
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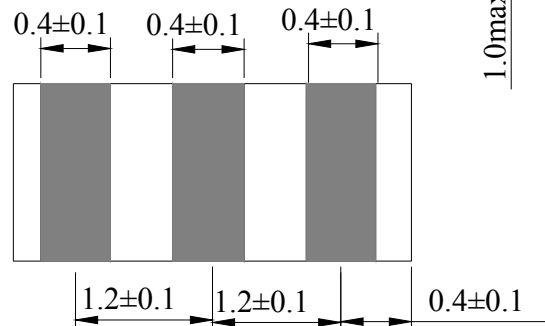
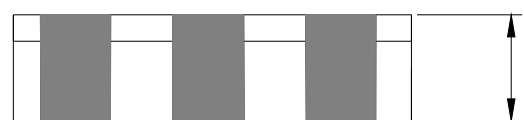
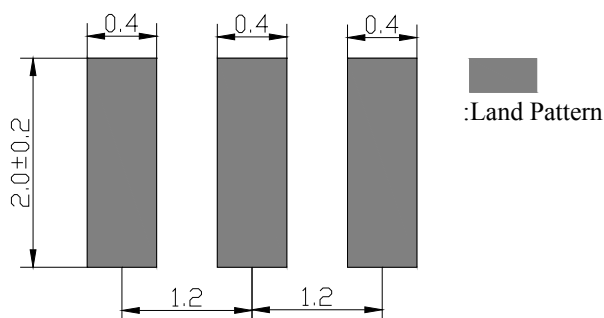


3.2 x 1.3 x 1.0 mm

OUTLINE DIMENSIONS:



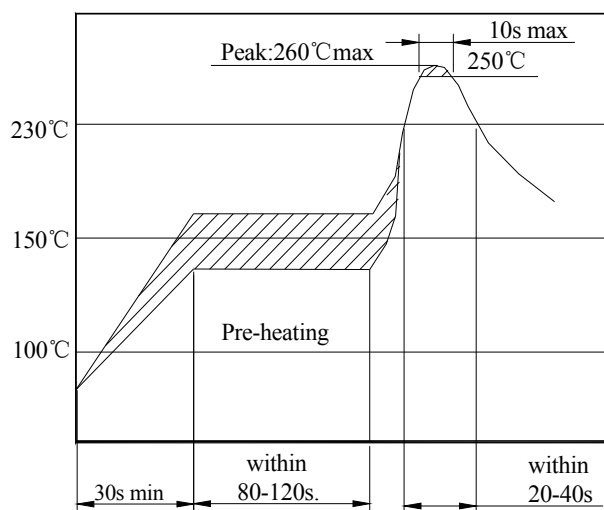
Recommended Land Pattern



- ① Input
- ② Ground
- ③ Output

Dimension: mm

REFLOW PROFILE:



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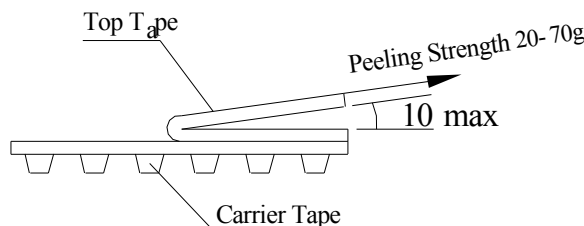
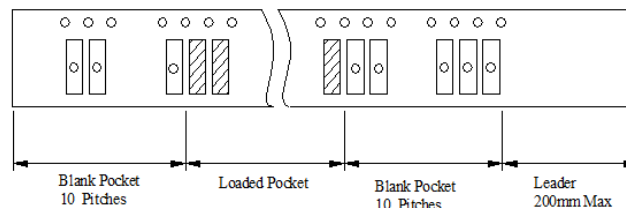
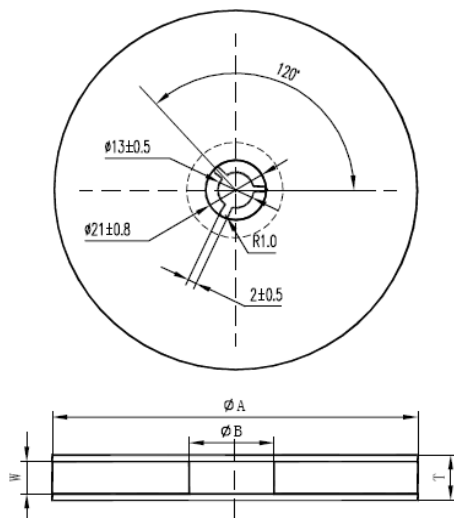
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TAPE & REEL:

T: 3000pcs/Reel



ΦA	ΦB	W	T	Pieces per reel	Carrier tape size
180±3	60 min.	⁺¹ 9.0-0.5	14.0 max	3000 typ.	12

Dimensions: mm

Note: upon opening the original packaging, it is recommended that the product be used within 1 year. If the product will not be used within 1 year, it is recommended that the product be re-sealed in airtight packaging according to MSL 1 requirements to maintain solderability.

CAUTION

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) This component is not hermetically sealed. Do not clean or wash the component.
- (3) Reflow Soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during Reflow Soldering.
- (4) Do not expose the component to open flame.
- (5) This specification applies to the functionality of the component as a single unit.
- (6) Storage Conditions: If the product is to be stored for a period greater than Six Months after the Delivery Date, it is recommended that customers confirm the solderability and characteristics for the product prior to use.
- (7) This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability, life dependant applications. Contact Abracon Corporation prior to using this product when in doubt.

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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