# 7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7))

RoHS Compliant



### **FEATURES:**

- Low resonant impedance
- Built-in load capacitors
- Suitable for RoHS compliant reflow
- Low cost solution for cost sensitive applications

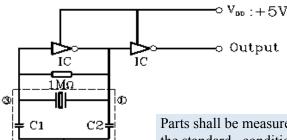
#### > APPLICATIONS:

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

### STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		1.84		8	MHz	
Resonant Impedance (Ro)			100		Ω	1.84 MHz - 2.39 MHz
			100			2.40 MHz - 2.99 MHz
			50			3.00 MHz - 3.49 MHz
			30			3.50 MHz - 8.00 MHz
Standard Built-in Capacitance (C1=C2)		33 - 20%	33	33 + 20%	pF	1.84 MHz - 2.39 MHz
		22 – 20%	22	22 + 20%		2.40 MHz - 2.99 MHz
						3.00 MHz - 3.49 MHz
						3.50 MHz - 8.00 MHz
Frequency Tolerance		-0.5		0.5	%	
Frequency Stability		-0.3		0.3	%	-25°C to +85°C
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			ΜΩ	10V, 1min
Operation Temperature		-25		85	°C	
Storage Temperature		-55		85	°C	
Aging Rate (Fosc) (10 years)		-0.3		0.3	%	

### **TEST CIRCUIT:**



X: Ceramic Resonator

1. Input

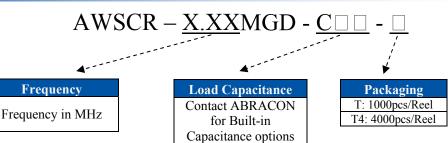
2. Ground

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 measure

### > OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)







ABRACON CORPORATION

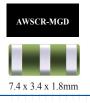
Visit www.abracon.com for Terms & Conditions of Sale **Revised: 04.07.11** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

# 7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

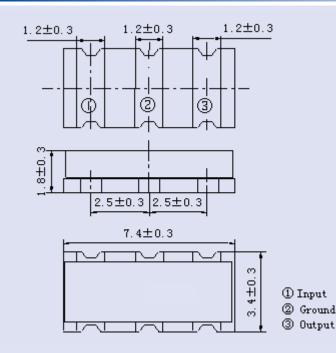


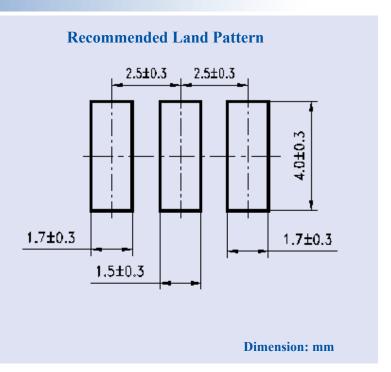
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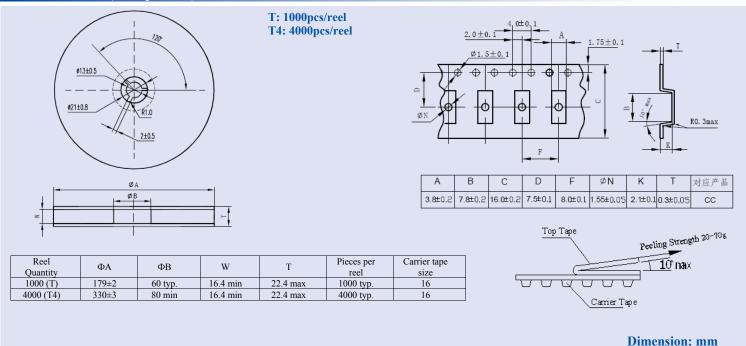


## **OUTLINE DRAWING:**





## **►** TAPE & REEL: (4,000pcs/reel):

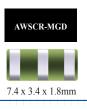


## 7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

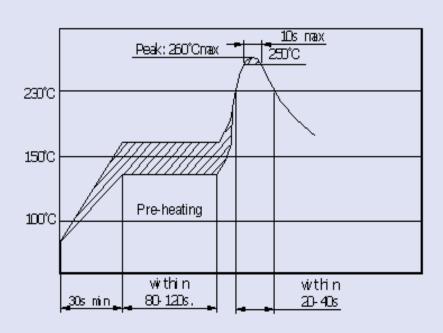


Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7))





### **REFLOW PROFILE:**



**Dimension: mm** 

### **CAUTION:**

- 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.
- This component is not hermetically sealed. Do not clean or wash the component.
- Reflow soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during reflow Soldering.
- Do not expose the component to open flame.
- This specification applies to the functionality of the component as a single unit. Customers are advised to insure that the component is thoroughly evaluated in the particular application.
- Shelf life: The warranted shelf life of this product is six months after the delivery date under the conditions of sealed, unopened, original packaging.
- 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.
- This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability, life-dependent application. 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.



