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

Obselete/End of Life Date: 10/26/2016 - Please consider AWSCR-CP as an alternative

AWSCR-MGD

Moisture Sensitivity Level (MSL) – This product is not Moisture Sensitive - MSL = 1 Pb in ceramic, exemption (7c-I)

AWSCR-MGD 7.4 x 3.4 x 1.8mm

> 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

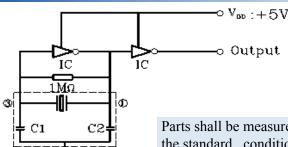
RoHS/RoHS II Compliant

• 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:

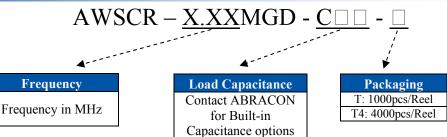


- X: Ceramic Resonator
- 1. Input
- 2. Ground
- 3. Output

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

(Left blank if standard)



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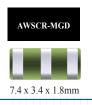
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7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

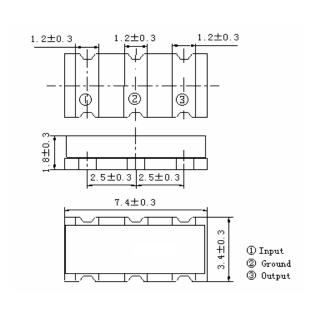
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AWSCR-MGD

RoHS/RoHS II CompliantPb in ceramic, exemption (7c-I)



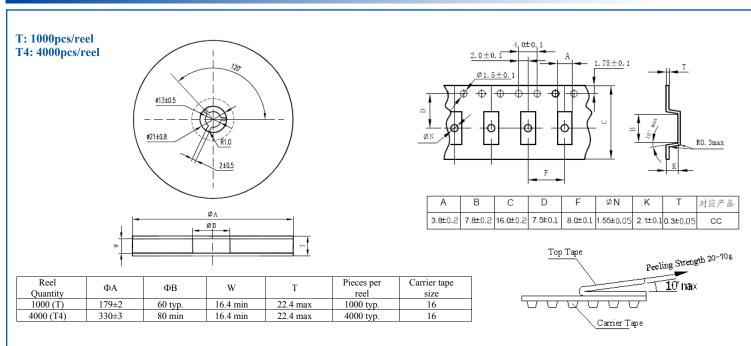
OUTLINE DRAWING:



2.5±0.3 2.5±0.3 2.5±0.3 1.7±0.3 1.7±0.3

Dimension: mm

> TAPE & REEL:



Dimension: 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.



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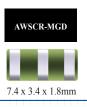
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7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

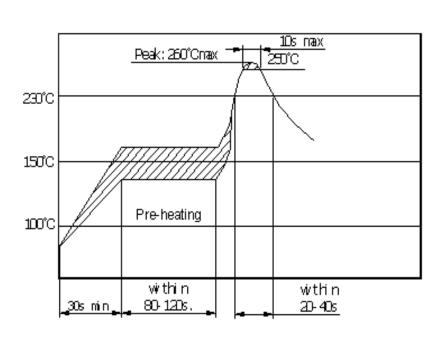
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RoHS/RoHS II CompliantPb in ceramic, exemption (7c-I)



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.
- 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-dependant 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.



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