# 7.4 x 3.4 x 1.8 mm SMD CERAMIC RESONATOR

### AWSZT-MGD

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

RoHS



7.4 x 3.4 x 1.8 mm

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

#### > FEATURES:

- Low resonant impedance
- IR reflow capable
- Low cost

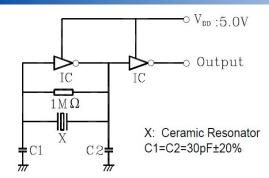
#### > APPLICATIONS:

- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances
- Consumer electronics

### **ELECTRICAL CHARACTERISTICS:**

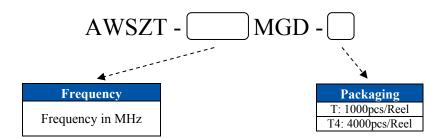
Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		2.00		8.00	MHz	
				100		2.00 MHz - 2.99 MHz
Resonant Impedance (Ro)				50	Ω	3.00 MHz - 3.49 MHz
				30		3.50 MHz - 8.00 MHz
Load Capacitance for Test Circuit (C1=C2)		24	30	36	pF	
Frequency Tolerance		-0.5		+0.5	%	
Frequency Stability		-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 CONDITION AND TEST CIRCUIT:**



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 & PART**





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ISO9001-2008 CERTIFIED

# 7.4 x 3.4 x 1.8 mm SMD CERAMIC RESONATOR



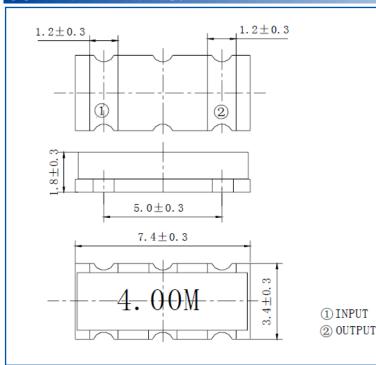
Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7))

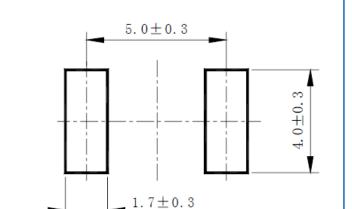


7.4 x 3.4 x 1.8 mm

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#### **OUTLINE DRAWING:**

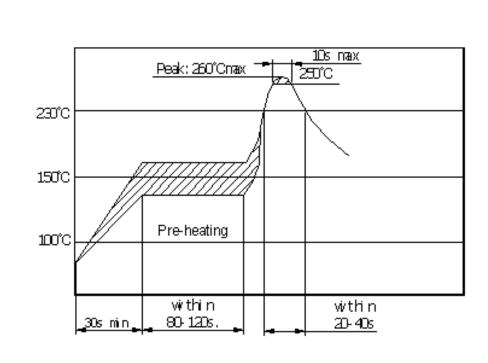




**Recommended Land Pattern** 

Dimension: mm

### **REFLOW PROFILE:**





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# 7.4 x 3.4 x 1.8 mm SMD CERAMIC RESONATOR

### AWSZT-MGD

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



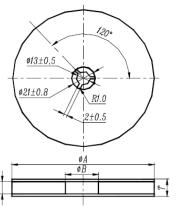
**AWSZ**1

7.4 x 3.4 x 1.8 mm

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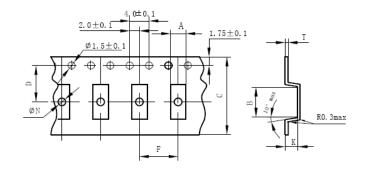
#### **► TAPE & REEL:**

T: 1000pcs/reel T4: 4000pcs/reel



Dimensions: mm

Reel Quantity	ΦА	ΦВ	W	T	Pieces per reel	Carrier tape size
1000 (T)	179±2	60 typ.	16.4 min	22.4 max	1000 typ.	16
4000 (T4)	330±3	80 min	16.4 min	22.4 max	4000 typ.	16



A	В	C	D	F	ØN	K	T
3.8±0.2	7.8±0.2	16.0±0.2	7.5±0.1	8.0±0.1	1.55±0.05	2.1±0.1	0.3±0.05

#### **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) Shelf Life: The warranted Shelf Life of this product is Six Months after the Delivery Date under the conditions of sealed, unopened, original packaging.
- (7) 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.
- (8) 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.

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