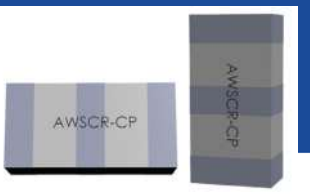
3-PAD INDUSTRIAL GRADE CERAMIC RESONATOR

AWSCR-CP SERIES



6.0 x 3.0 x 1.8 mm

RoHS/RoHS II Compliant
Pb in ceramic, exemption (7c-1)
MSL = 1

FEATURES

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

APPLICATIONS

- Remove controls, microprocessor clocks DVD & CD-ROMs, electric appliances
- Consumer electronics

STANDARD SPECIFICATIONS

PARAMETERS		MINIMUM	TYPICAL	MAXIMUM	UNITS	NOTES
Frequency Range		2.00		12.00	MHz	
Resonant Impedance (Ro)			100		Ω	2.00 MHz – 2.99 MHz
			50			3.00 MHz – 3.49 MHz
			30			3.50 MHz – 12.00 MHz
Standard Built-in Capacitance (C1=C2)			30		pF	2.00 MHz – 8.00 MHz
			15			8.01 MHz – 12.00 MHz
Frequency Tolerance		-0.5		0.5	%	
Frequency Stability		-0.3		0.3	%	
Withstanding Voltage				50	V	-25˚C TO +85˚C
Rating Voltage	(1) D.C. Voltage			6	V	DC , 1 MIN.
	(2) A.C. Voltage			15	Vp-p.	
Insulation Resistance		100			MΩ	10V, 1 MIN.
Operation Temperature		-25		+85	ºC	
Storage Temperature		-55		+85	ºC	
Aging Rate (Fosc)		-0.1		0.1	%	10 years

OPTIONS AND PART IDENTIFICATION (LEFT BLANK IF STANDARD)

AWSCR - X.XXCP - C□□-□

FREQUENCY	LOAD CAPACITANCE	PACKAGING
Frequency in MHz	Contact Abracon for built in capacitance options	T4: 4000pcs/Reel

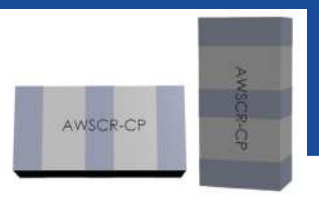
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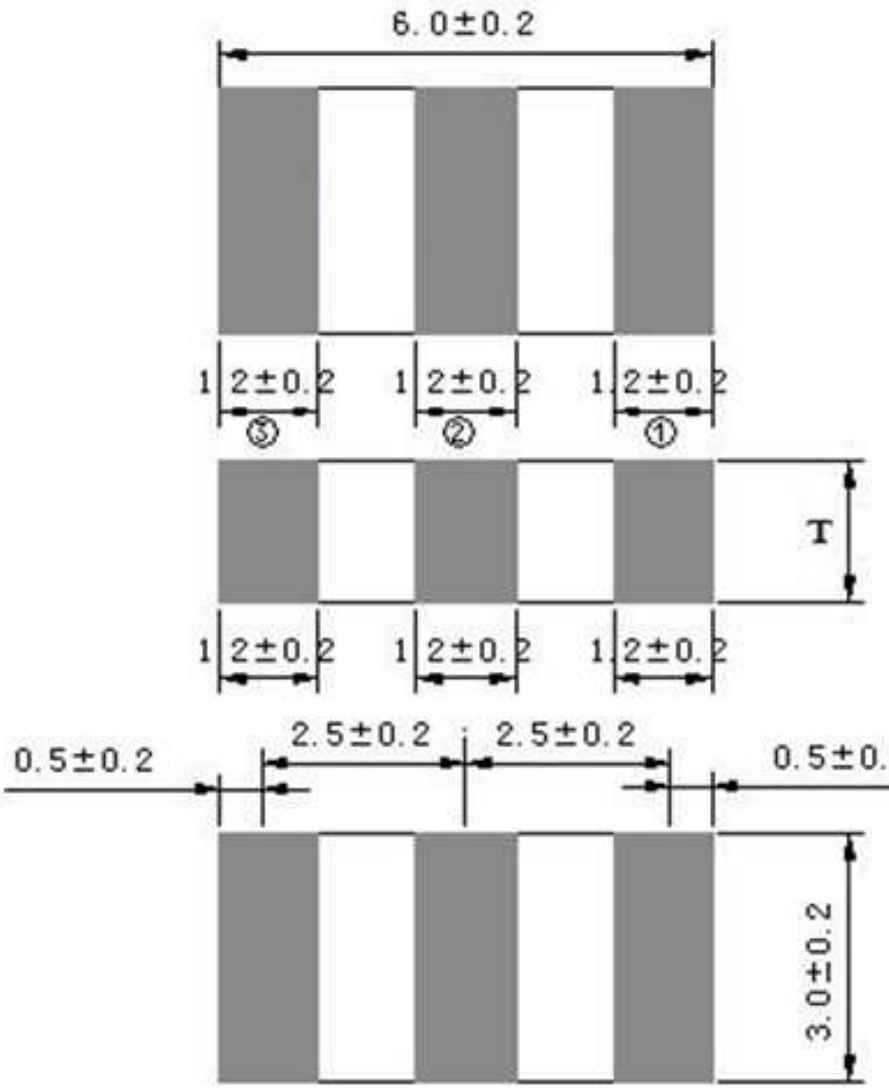
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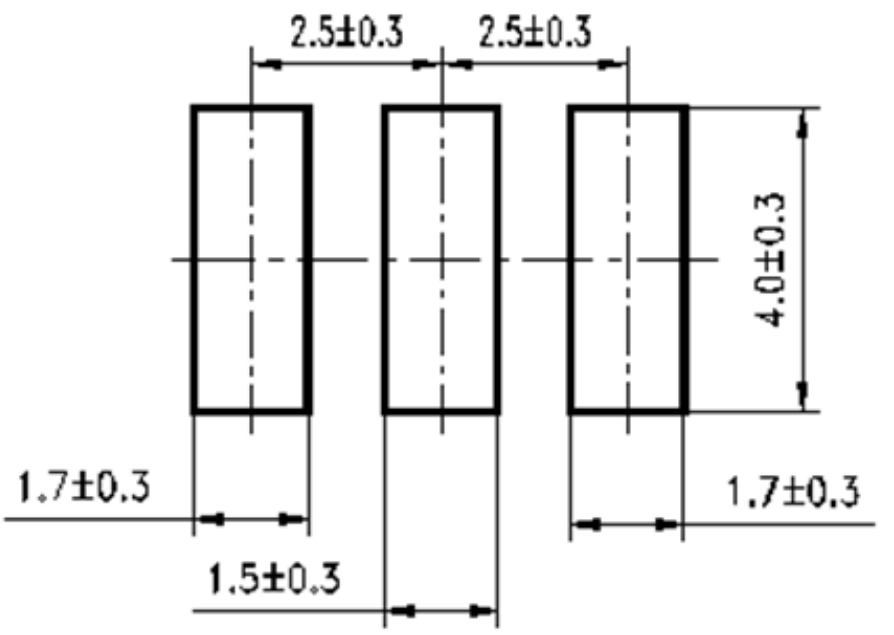
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OUTLINE DIMENSIONS

TOP VIEW



T=1.8±0.2mm(2.00-3.99MHz)
T=1.5±0.2mm(4.00-12.00MHz)



RECOMMENDED LANDING PATTERN (mm)

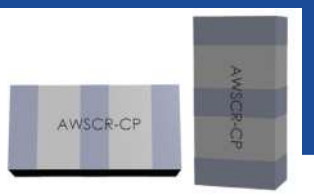
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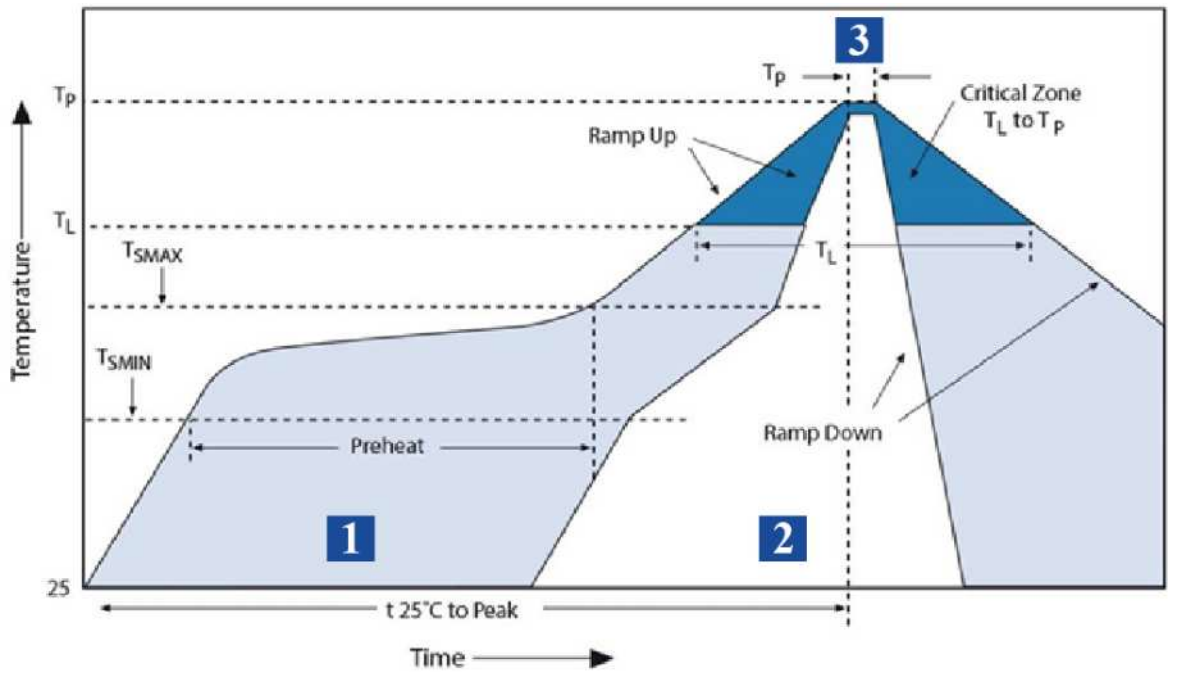
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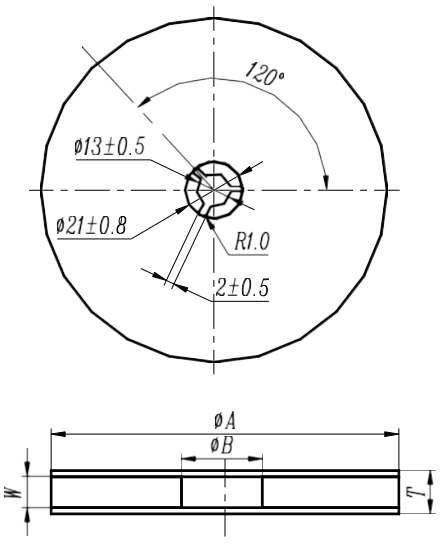
REFLOW

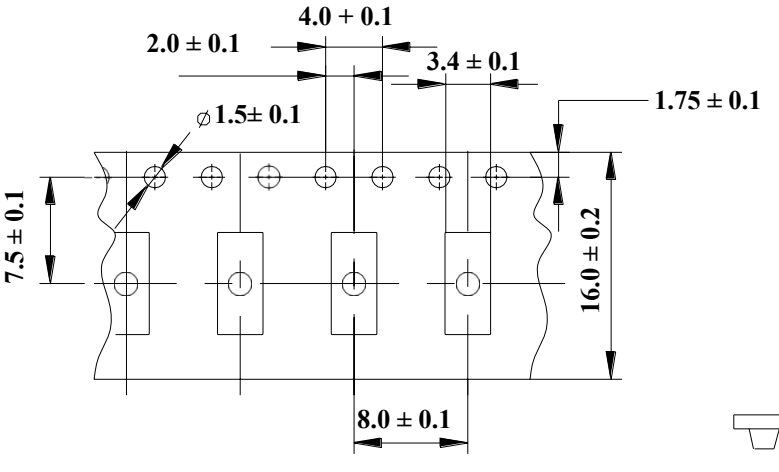


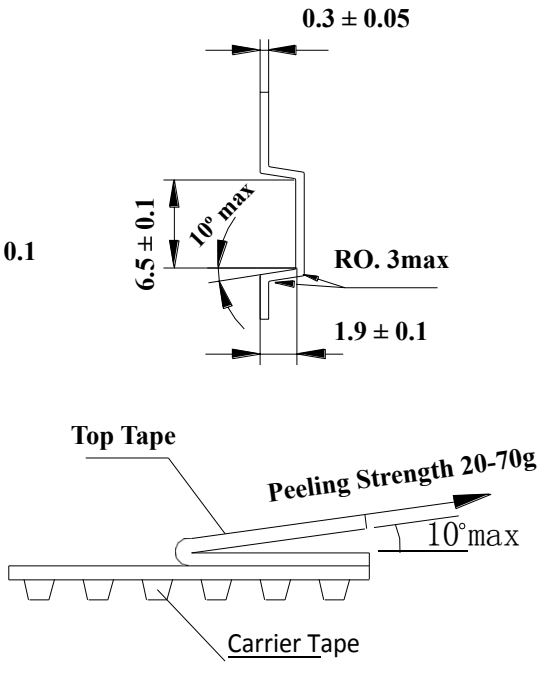
Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} ~ T_{SMAX} 150ºC ~180ºC	80~120 sec.
2	Reflow	T_L 230 ºC	20~40 sec.
3	Peak Heat	T_P 260 ºC	10 sec. MAX

TAPE AND REEL

PACKAGING: T4: 4000PCS/REEL







φA	φB	W	T	Pieces per reel	Carrier tape size
330±3	80min	16.4min	22.4max	4000typ.	16

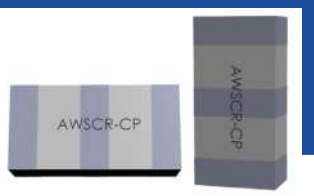
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CAUTION

1. Don't apply excess mechanical stress to the component and terminals at soldering. Do not use this product with bend.
2. Do not clean or wash the component for it is not hermetically sealed.
3. Do not use strong acidity flux, more than 0.2wt% chlorine content, in flow soldering.
4. Don't be close to fire.
5. This specification mentions the quality of the component as a single unit. Please insure the component is thoroughly evaluated in your application circuit
6. Expire date (Shelf life) of the products is 12 months after delivery under the conditions of a sealed and an unopened package. Please use the products within 12 months after delivery. If you store the products for a long time (more than 12 months), use carefully because the products may be degraded in the solderability or rusty. Please confirm solderability and characteristics for the products regularly.

NOTES

1. The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
2. ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
3. In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
4. When changing your production process, please notify ABRACON immediately.
5. ABRACON'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 is required. Please contact ABRACON for more information.
6. All specifications and Marking will be subject to change without notice.

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