### AWSCR-CPLA

#### Features

- Industry standard footprint
- Low resonance impedance
- Built-in capacitance options
- Wide operating temperatures in extended industry range

### Applications

- Metering systems
- Remote control
- Microprocessor
- Industrial control
- Electric appliances

### **Electrical Specifications**

Parameters		Min	Тур.	Max	Units	Notes
Frequency Range		1.84		12.00	MHz	
Resonant Impedance (Ro)				100	Ω	1.84 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			1.84 MHz – 8.00 MHz
		Other options: 10, 15, 22, 33, 39. 47			ъE	(Tol 1pF $\pm 20\%$ )
			15		pF	8.01 MHz – 12.00 MHz
		Other options: 10, 22, 30, 33, 39. 47				(Tol $1pF \pm 20\%$ )
Frequency Tolerance		-0.5		0.5	%	
Frequnecy Stability		-0.3		0.3	%	2.00-8.00 MHz
		-0.2		0.2	%	8.01-12.00 MHz
Withstanding Voltage				100	V	DC, 5 s max
Voltage Rating	(1) D.C. Voltage			6	V	
	(2) A.C. Voltage			15	Vp-p	
Insulation Resistance (Ri)		500			MΩ	10V, 1 min.
Operation Temperature		-40		+85	°C	
Storage Temperature		-55		+85	°C	
Aging Rate max (Fosc) *		-0.1		0.1	%	From Initial value

\* Components shall be left in a chamber of +85 °C  $\pm$  2 °C for 1000 hours, then measured after leaving in natural condition for 1 hours.



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ABRACON IS ISO9001-2015 CERTIFIED



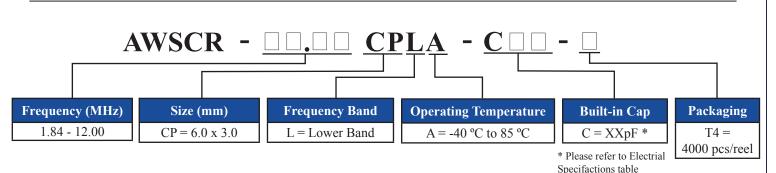
6.0 x 3.0 x 1.8 mm RoHS/RoHS II Compliant Pb in ceramic, exemption (7c-I) This product is not Moisture Sensitive - MSL = 1



AWSCR-CPLA

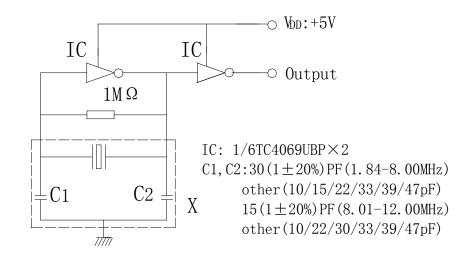
6.0 x 3.0 x 1.8 mm RoHS/RoHS II Compliant Pb in ceramic, exemption (7c-I) This product is not Moisture Sensitive - MSL = 1

**Options and Part Identification** 



#### **Test Circuit and Conditions**

Parts shall be tested under the condition (Temp: 20 °C  $\pm$  15 °C, Humidity: 65  $\pm$  20 % R.H.) unless the standard condition (Temp: 25 °C  $\pm$  3 °C, Humidity: 65  $\pm$  10 % R.H.) is regulated to measure.





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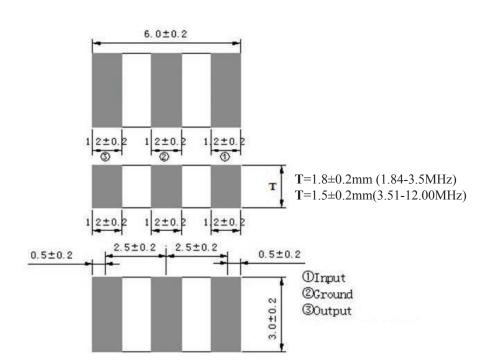
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#### Dimensions



Unit: mm



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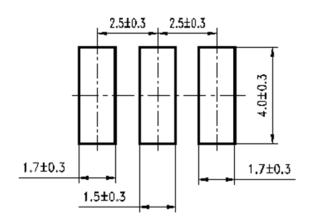
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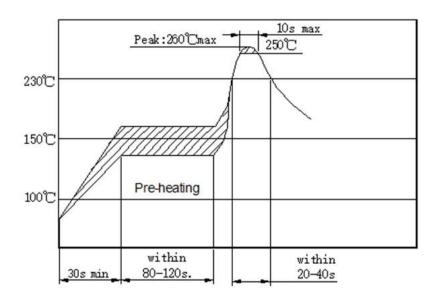
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#### **Recommended Land Pattern**



Unit: mm

#### **Recommended Reflow Profile**





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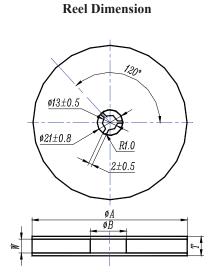
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#### 6.0 x 3.0 x 1.8 mm RoHS/RoHS II Compliant Pb in ceramic, exemption (7c-I) This product is not Moisture Sensitive - MSL = 1

Packaging

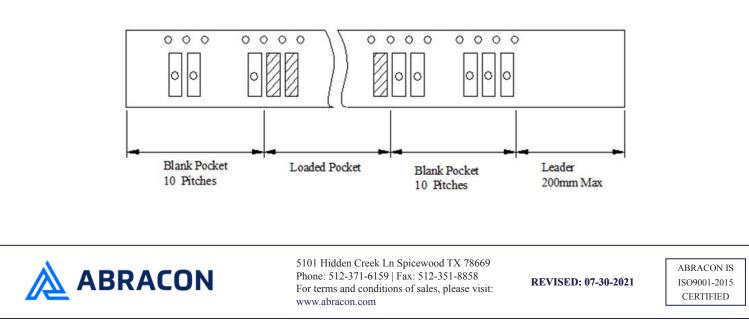
T4: 4000 pcs/reel



Unit: mm

φA	φΒ	W	Т	Pieces per reel	Carrier tape size
$330 \pm 3$	80 min	16.4 min	22.4 max	4000 typ.	16

### **Packaging Sketch**

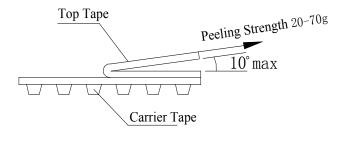


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Packaging

**Test Condition for Peel-Off Strength** 



#### Caution

- 1. Do not apply excess mechanical stress to the component and terminals during soldering. Do not use this product if it is bent or damaged.
- 2. Do not clean or wash the component for it is not hermetically sealed.
- 3. Do not use a strong acidity flux with more than 0.2 wt% chlorine content during soldering.
- 4. Do not place or use the item close to fire.
- 5. Please ensure the component is thoroughly evaluated in your application circuit as the specification mentions the quality of the component as a single unit.
- 6. Expiry date (Shelf life) of the products is 12 months after the date of delivery under the conditions of a sealed and an unopened package. Please use the products within 12 months after delivery. If the item is stored for more than 12 months, use caution before use as the item may be degraded in the solderability or develop rust. Please confirm solderability and characteristics for the products regularly.

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