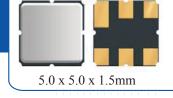
304.25MHz SMD One Port SAW Resonator

ASR304.25A01-SE





Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- Low insertion loss 2.5dB max
- 5.0 x 5.0 x 1.5mm package
- 50Ω impedance termination
- Suitable for RoHS compliant reflow

> APPLICATIONS:

- Wireless remote controller
- Mobile communication

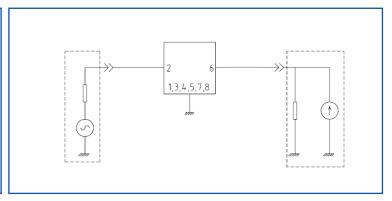
STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f ₀)	304.175	304.250	304.325	MHz	418MHz±75kHz
Insertion Loss		1.5	2.5	dB	
Quality Factor		11,000			Unloaded Q
		1,900			50Ω loaded Q
Turnover Temperature		25		°C	
Freq. Temp. Coefficient		0.032		ppm/°C	
Frequency Aging			≤±10	ppm/yr	
DC Insulation Resistance	1.0			ΜΩ	
Motional Resistance R1		13.6	21	Ω	
Motional Inductance L1		95.2		uН	
Motional Capacitance C1		2.86		fF	
Shunt Static Capacitance C0	2.40	2.70	3.00	pF	
Operation Temperature Range	-40		+85	$^{\circ}\! \mathbb{C}$	
Storage Temperature Range	-45		+85	$^{\circ}\! \mathbb{C}$	
DC Voltage between terminals			10	Vdc	
CW RF Power Dissipation			0	dBm	

EQUIVALENT LC MODEL

1 o Co

TEST CIRCUIT



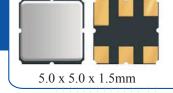




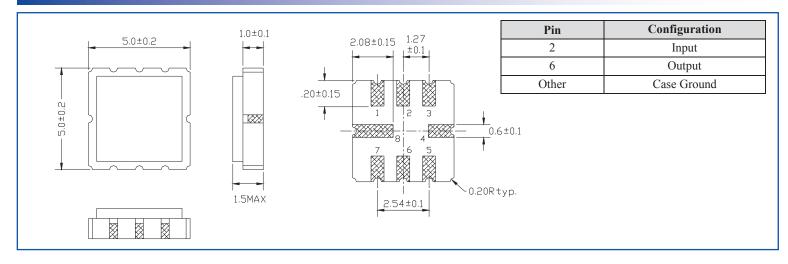
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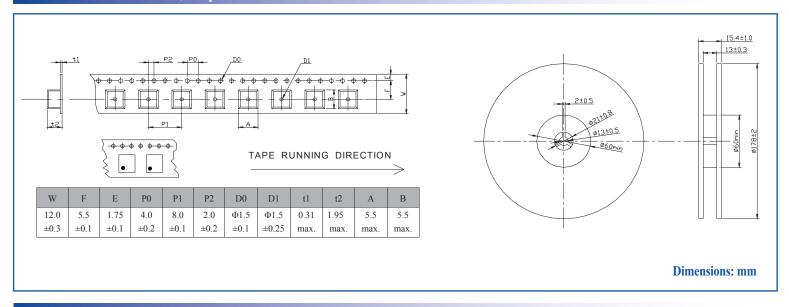




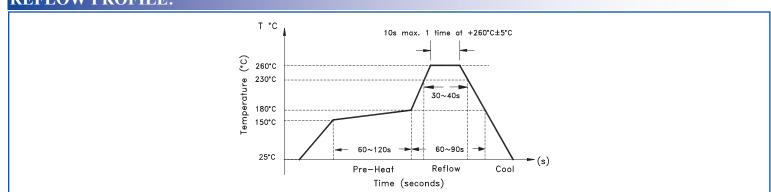
OUTLINE DIMENSIONS:



TAPE AND REEL: 1,000pcs/reel



REFLOW PROFILE:



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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