



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

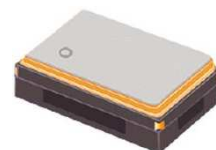
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Programmable - High Performance SMD XO & VCXO (LVPECL Output)



2.5 x 2.0 x 1.0 mm

ASG2-P



Moisture Sensitivity Level (MSL) – 1

FEATURES:

- +2.5V or +3.3V operation
- -40°C to +85°C standard operating temperature range
- Miniature size 2.5 x 2.0 x 1.0 mm Ceramic SMT Package
- Short lead time

APPLICATIONS:

- Networking
- SONET/SDH
- WiMax / WLAN
- Computing
- Phase Locked Loops
- Direct Digital Synthesis (DDS)
- DSL/ADSL
- Base Terminal Stations

STANDARD SPECIFICATIONS:

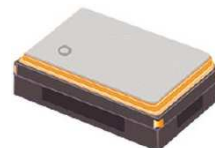
Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		8		1500	MHz	
Operating Temperature		-40		+85	°C	
Storage Temperature		-55		+125	°C	
Overall Frequency Stability		-50		+50	ppm	<i>See Note # 1</i>
Initial Tolerance + Stability over operating temperature		-35.00		+35.00	ppm	
Supply Voltage (V _{dd})	V _{dd} = 3.3V	3.135	3.300	3.465	V	
	V _{dd} = 2.5V	2.375	2.500	2.625	V	
Input Current				65	mA	Frequency dependent
LVPECL Output (OUT & OUT)	Output High Voltage	V _{dd} - 1.025			V	50Ω nominal load
	Output Low Voltage			V _{dd} - 1.62	V	50Ω nominal load
	Duty Cycle	45		55	%	@V _{dd} -1.3V
	Rise Time			600	ps	80%/20%
	Fall Time			600	ps	80%/20%
Enable/Disable Function :		"1" (V _{IH} ≥ 0.7*V _{dd}) or Open: Oscillation "0" (V _{IL} < 0.3*V _{dd}) : High Z				
Control Voltage Range		0		V _{dd}	V	For VCXO Only
Absolute Pull Range		±35			ppm	For VCXO Only
Control Port Bandwidth		10			kHz	For VCXO Only
Linearity				15	%	For VCXO Only
Slope		Positive				For VCXO Only
Phase jitter RMS (12kHz to 20MHz offset)			1.0	1.8	ps	<i>See Note #2</i>

Note #1: Inclusive of initial tolerance at 25°C±3°C, operating temperature range, input voltage variation, load variation & 15 years aging at 25°C.

Note #2: The rms jitter integrated over 12kHz to 20MHz Bandwidth is dependent on the carrier and whether or not the final frequency is achieved without engaging the Fractional Mode



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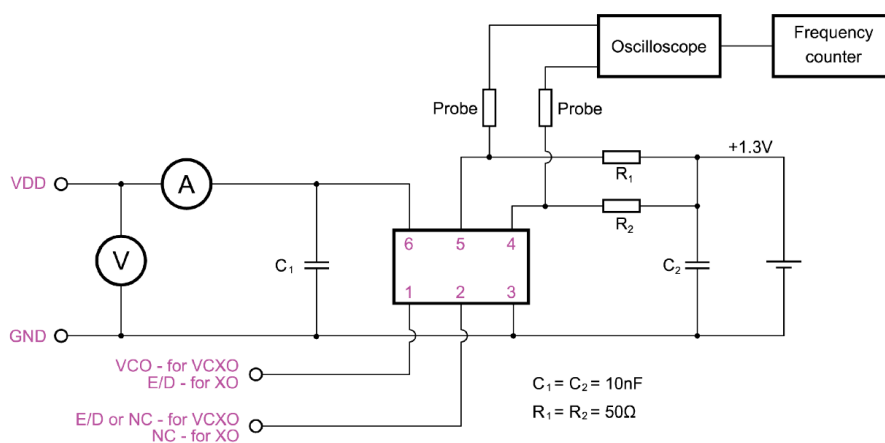
2.5 x 2.0 x 1.0 mm

ASG2-P

ESD Sensitive

RoHS / RoHS II Compliant

TEST CIRCUIT



OPTIONS & PART IDENTIFICATION:

ASG2 - P - - - MHz -

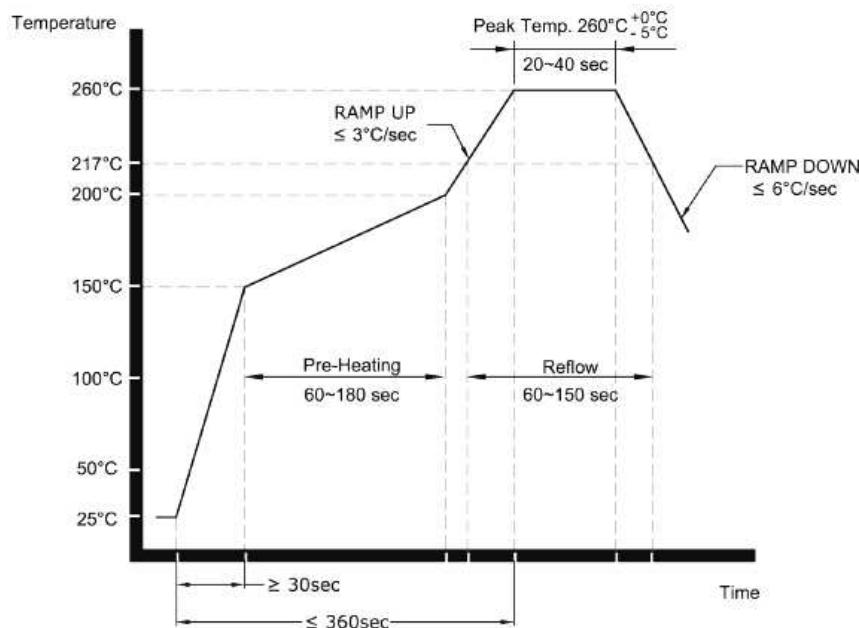
Fixed or Pull-able
X = Fixed Oscillator
V = VCXO

Operating Voltage
3.30V = A
2.50V = B

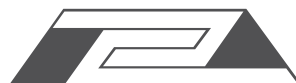
Frequency in MHz
Please specify the Frequency in MHz e.g. 100.000 MHz

Packaging
Blank = Bulk
T = Tape & Reel

RECOMMENDED REFLOW PROFILE



ABRACON IS
ISO9001:2008
CERTIFIED

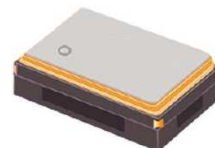


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Revised: 07.01.14

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2.5 x 2.0 x 1.0 mm

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 ESD Sensitive

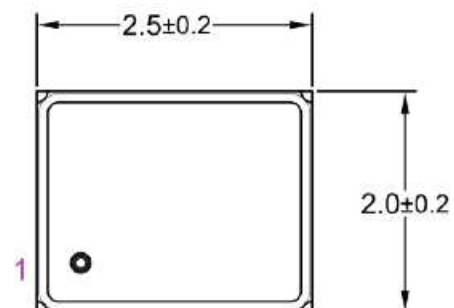
 RoHS / RoHS II Compliant

OUTLINE DIMENSION:

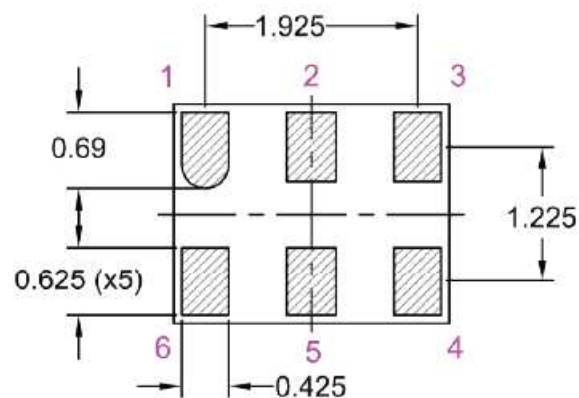
Pin #	Pin Description For VCXO configuration
1	Voltage Control for VCXO
2	Output Enable (OE) <i>or</i> No Connect (N/C)
3	GND
4	RF Output
5	Complimentary Output
6	Vdd

Pin #	Pin Description For XO configuration
1	Output Enable (OE)
2	No Connect (N/C) for XO
3	GND
4	RF Output
5	Complimentary Output
6	Vdd

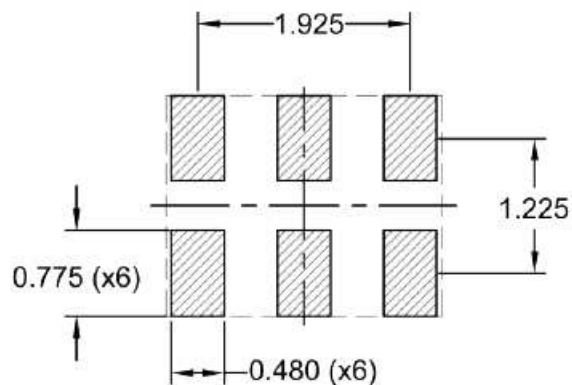
Top View



Bottom View



Recommended Land Pattern

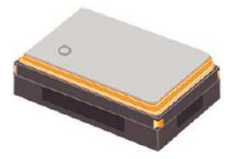


Side View



Dimensions: mm

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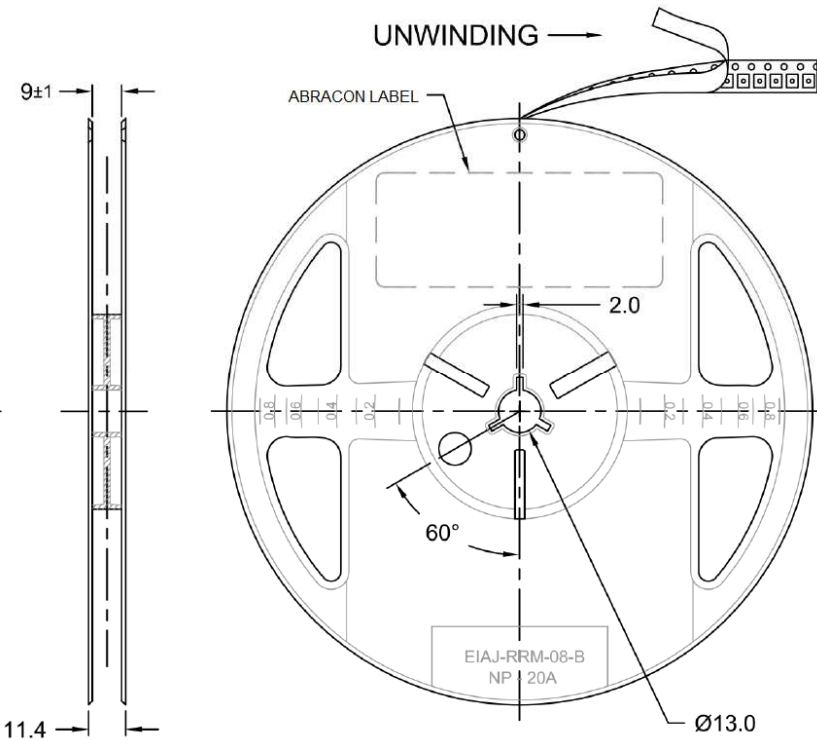
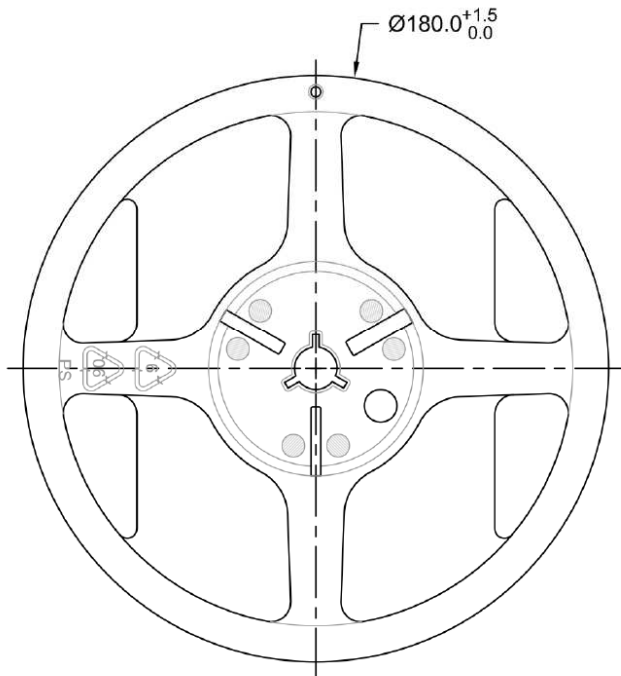
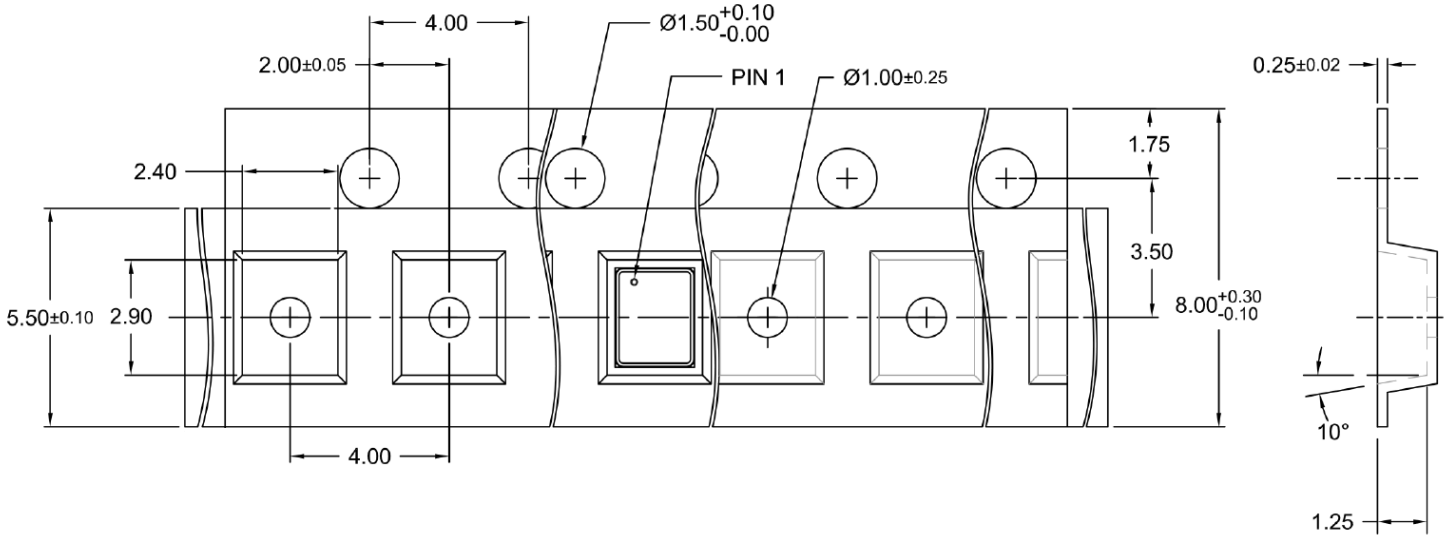
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ESD Sensitive

RoHS / RoHS II Compliant

TAPE & REEL:

T= Tape and reel (3,000pcs/reel)



Dimensions: mm

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