

Ultra Miniature SMD Crystal Clock Oscillator



ASCO

1.6 x 1.2 x 0.7mm

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



RoHS Compliant

FEATURES:

- Ultra miniature package: 1.6 x 1.2 x 0.7mm
- Tri-state function
- Suitable for high density SMT
- Suitable for RoHS compliant reflow process
- Electrical beam sealed package assures extreme accuracy and high reliability

APPLICATIONS:

- CCD clock for VTR camera
- Computers and peripherals
- Portable electronics
- Mobile communication, PDA

STANDARD SPECIFICATIONS:

Common Key Electrical Specifications

Parameters		Minimum	Typical	Maximum	Units	Notes		
Frequency Range		1.0		80	MHz			
Operating Temperature		-10		+60	°C	See options		
Storage Temperature		-40		+85	°C			
Overall Frequency Stability*		-50		+50	ppm	See options		
Supply Voltage (Vdd)		2.97	3.3	3.63	V	Standard		
		2.25	2.5	2.75		Option "1"		
		1.62	1.8	1.98		Option "2"		
Supply Current (I _{dd}) into 15pF Load	Vdd = 3.3 V		3.0	4.5	mA	1MHz ≤ F ≤ 20 MHz		
			4.2	6.0		20 MHz < F ≤ 50 MHz		
			6.0	8.5		50 MHz < F ≤ 80 MHz		
	Vdd = 2.5 V		2.5	3.5		1MHz ≤ F ≤ 20 MHz		
			3.0	4.5		20 MHz < F ≤ 50 MHz		
			4.0	6.0		50 MHz < F ≤ 80 MHz		
	Vdd = 1.8 V		2.0	3.0		1MHz ≤ F ≤ 20 MHz		
			2.5	3.5		20 MHz < F ≤ 50 MHz		
			3.5	5.0		50 MHz < F ≤ 80 MHz		
	Output Load					15	pF	CMOS
	Output Voltage	V _{OH}	0.9*Vdd				V	
		V _{OL}				0.1*Vdd		
Tri-state function		"1" (VIH ≥ 0.7*Vdd) : Oscillation "0" (VIH < 0.3*Vdd) : Hi Z				Pin 1 must be pulled "high" for oscillation		
Aging		-3.0		3.0	ppm	@+25°C First year		
Symmetry @1/2Vdd		40	50	60	%	Standard		
		45	50	55		Option S		
Start-up Time				2.0	ms			
Rise/Fall Time (Tr/Tf)				5.0	ns			

*Overall frequency stability includes initial frequency tolerance @+25°C and stability over the operating temperature.

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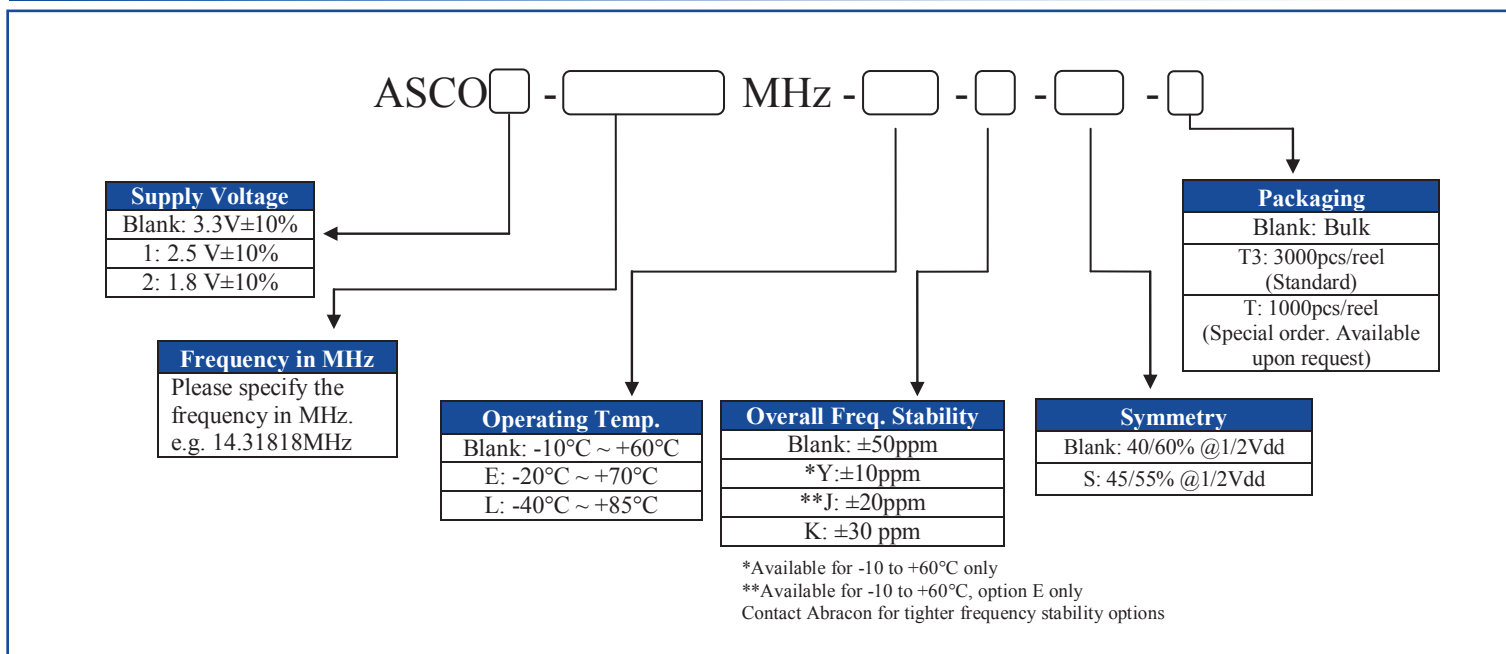


1.6 x 1.2 x 0.7mm

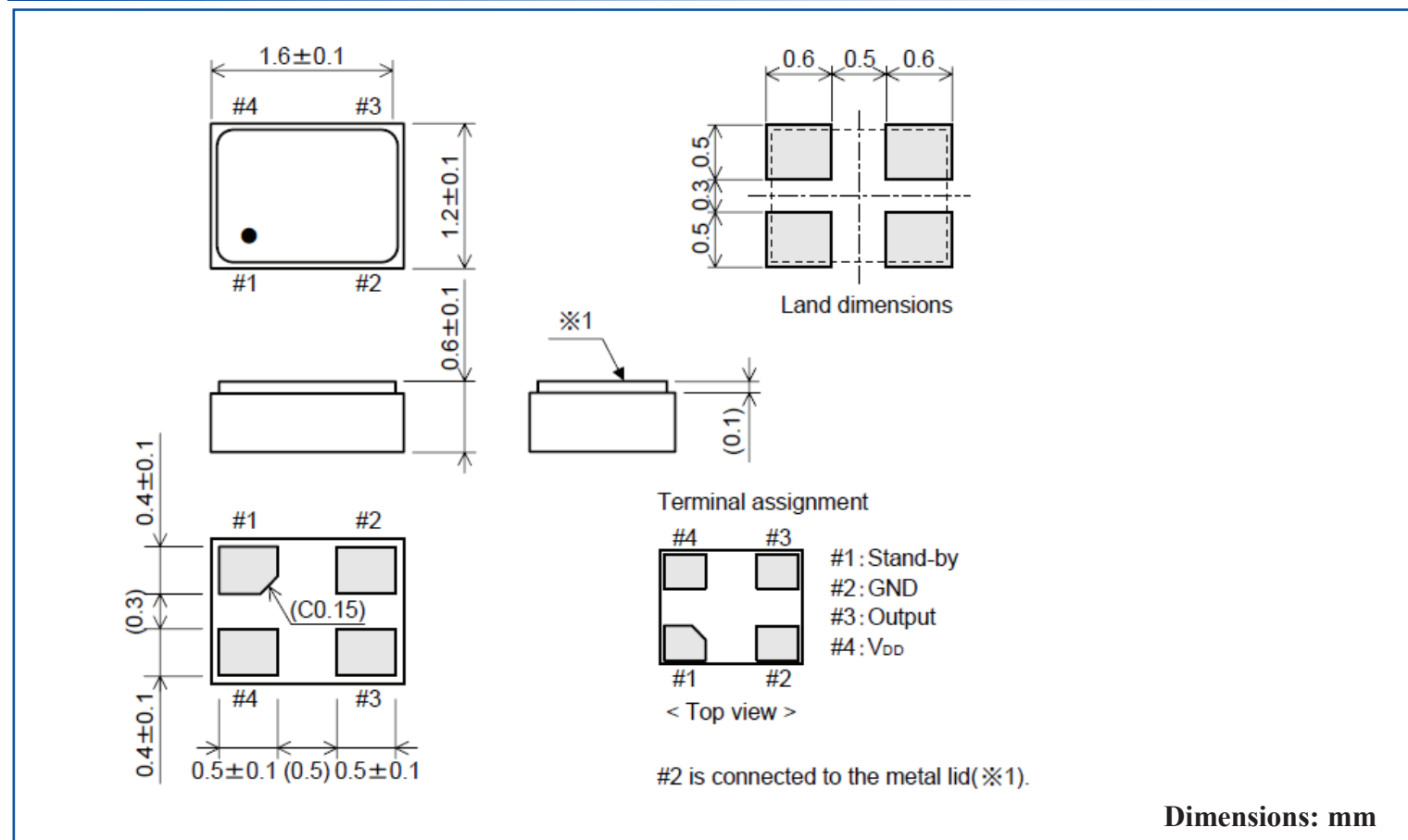
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PART IDENTIFICATION:



OUTLINE DRAWING:



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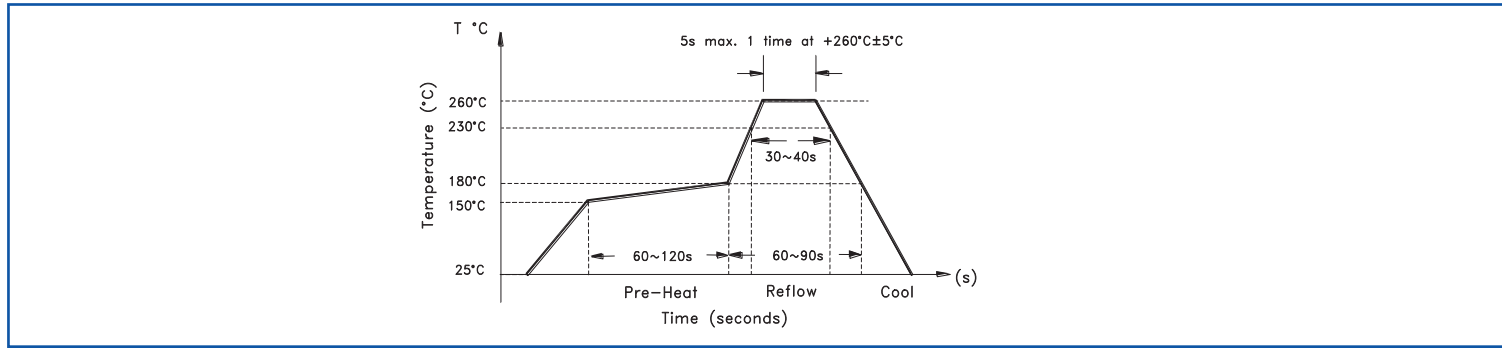


1.6 x 1.2 x 0.7mm

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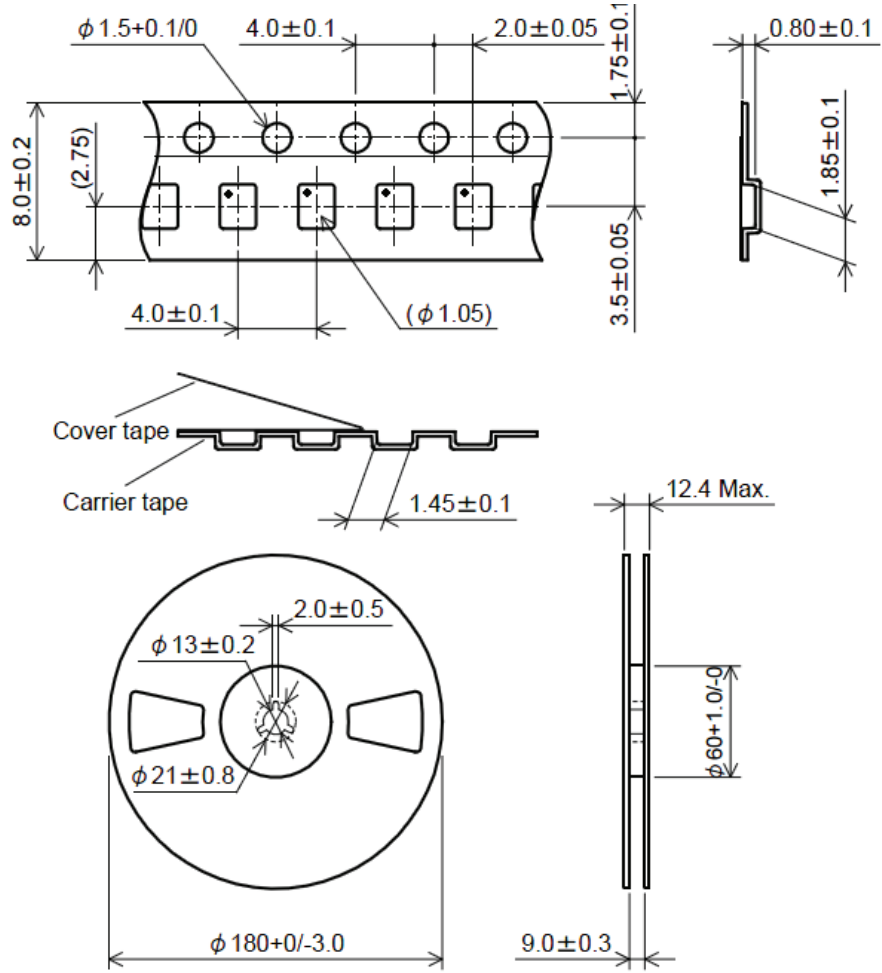
Pb RoHS Compliant

REFLOW PROFILE:



TAPE & REEL:

T3= 3,000pcs/reel (Standard)
T = 1,000pcs/reel (Special order. Available upon request)



Dimensions: mm

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