



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!



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OVEN CONTROLLED CRYSTAL OSCILLATOR

AOCJY1 Series



RoHS
Compliant



20.8 x 13.2 x 8.2 mm

FEATURES:

- 20.8 x 13.2 x 8.2 mm Leaded- RoHS Compliant Reflow-able Package
- AT-Cut, High “Q” resonator based design
- Either Sinewave or CMOS RF output
- Available with ± 500 ppb over -40°C to $+75^{\circ}\text{C}$ operating temperature Range
- Tighter Stabilities to ± 50.0 ppb over 0°C to $+50^{\circ}\text{C}$ also available
- Exceptional long-term Aging of ± 3 ppm max. over 10-Year Product Life
- Excellent close-in phase noise (-145 dBc/Hz Typical @1k Hz offset; 10MHz carrier)

APPLICATIONS:

- Cellular Infrastructure
- Radar Systems
- Test & Measurement Equipment
- GPS Tracking with precision hold-over accuracy
- WiMax / WLAN

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
RF Output					
Frequency	10.00		100.00	MHz	Overall Frequency range
Standard Available Frequencies	10.00, 12.80, 13.00, 26.00, 38.88, 40.00, 100.00 MHz				
Waveform					
CMOS					
Level "1" (Logic High)	0.9*Vdd			Volts	
Level "0" (Logic Low)			0.1*Vdd	Volts	
Load		15		pf	
Rise & Fall Time			6.0	ns	
Duty Cycle	45		55	%	
Waveform					
Sinewave					
Peak Power	2.00			dBm	
Output Load		50		Ω	
Short Term Stability		1×10^{-9}		/second	Alan Variance
Operable Temperature Range	-40		75	$^{\circ}\text{C}$	<i>See Stability Options</i>
Frequency Stability Options					
0 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$			± 50.00	ppb	Default Spec.
-20 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$			± 200.00	ppb	Option "E"
-40 $^{\circ}\text{C}$ to +75 $^{\circ}\text{C}$			± 500.00	ppb	Option "F"
Frequency Stability vs. Supply Voltage (Vdd \pm 5%)					
Warm-Up @ 25 $^{\circ}\text{C}$			± 500.00	ppb	In \leq 3-minutes
Power Consumption @ turn on			2.00	Watts	
Power Consumption Steady State			1.00	Watt	
Supply Voltage (Vdd)	3.13	3.30	3.46	Volts	<i>See Options</i>
Aging					
Yearly			± 500	ppb	
10-Years			± 3.00	ppm	
Supply Voltage Variation			± 50	ppb	VDD \pm 5% change
Spectral Content					
Spurious Response			-35	dBc	
Phase Noise (10MHz Carrier) @ 5V					
@ 10 Hz offset			-90	dBc / Hz	
@ 100 Hz offset			-120	dBc / Hz	
@ 1,000 Hz offset			-145	dBc / Hz	
@ 10,000 Hz offset			-150	dBc / Hz	
Electrical Frequency Adjustment					
Control Voltage Range (Vc)	0.0		Vdd	Volts	
Frequency Pull Range	± 5.00			ppm	
Frequency Pull Slope		Positive			
Control Voltage Port Impedance	10			k Ω	
Center Control Voltage	(Vdd/2) -0.5	Vdd/2	(Vdd/2) +0.5	Volts	
Control Port Linearity		± 10		%	
Storage Temperature	-40		+100	$^{\circ}\text{C}$	

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20.8 x 13.2 x 8.2 mm

OPTIONS AND PART IDENTIFICATION (Left blank if standard)

AOCJY1 - - MHz - -

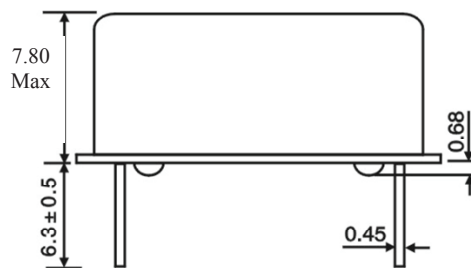
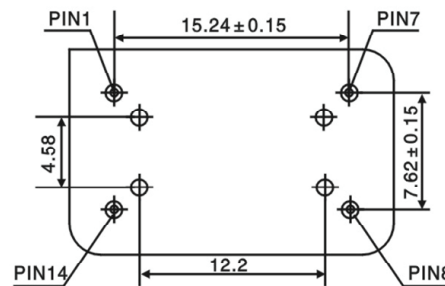
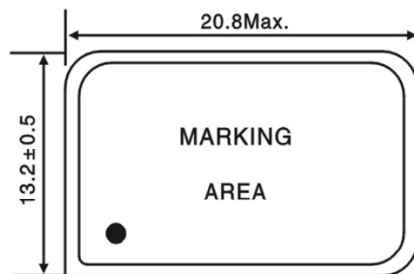
Supply Voltage Option
Blank: 3.30V
A: 5.00V

Frequency in MHz
Such as; 10.000 MHz
26.000 MHz
100.000 MHz

Temperature Options
E: -20°C to +70°C
F: -40°C to +75°C

RF Output Options
Blank: CMOS
SW: Sinewave

OUTLINE DIMENSIONS



Pin	Function
1	Control Voltage
7	GND
8	Output
14	Power Supply

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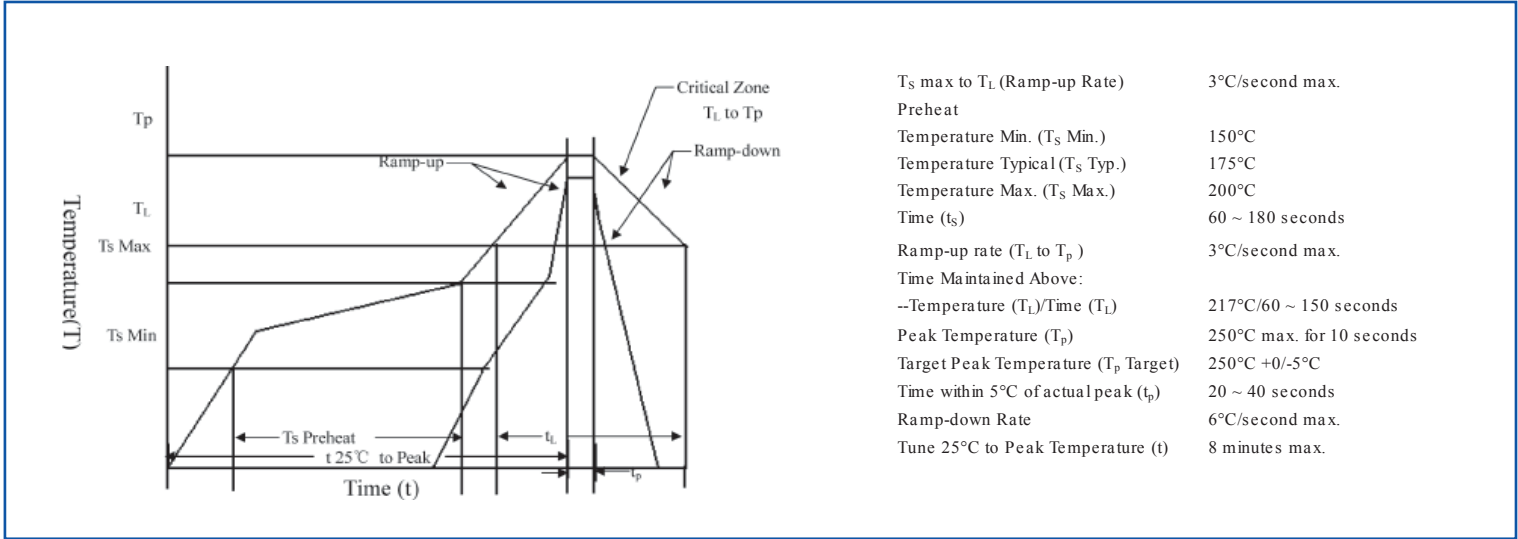


RoHS
Compliant

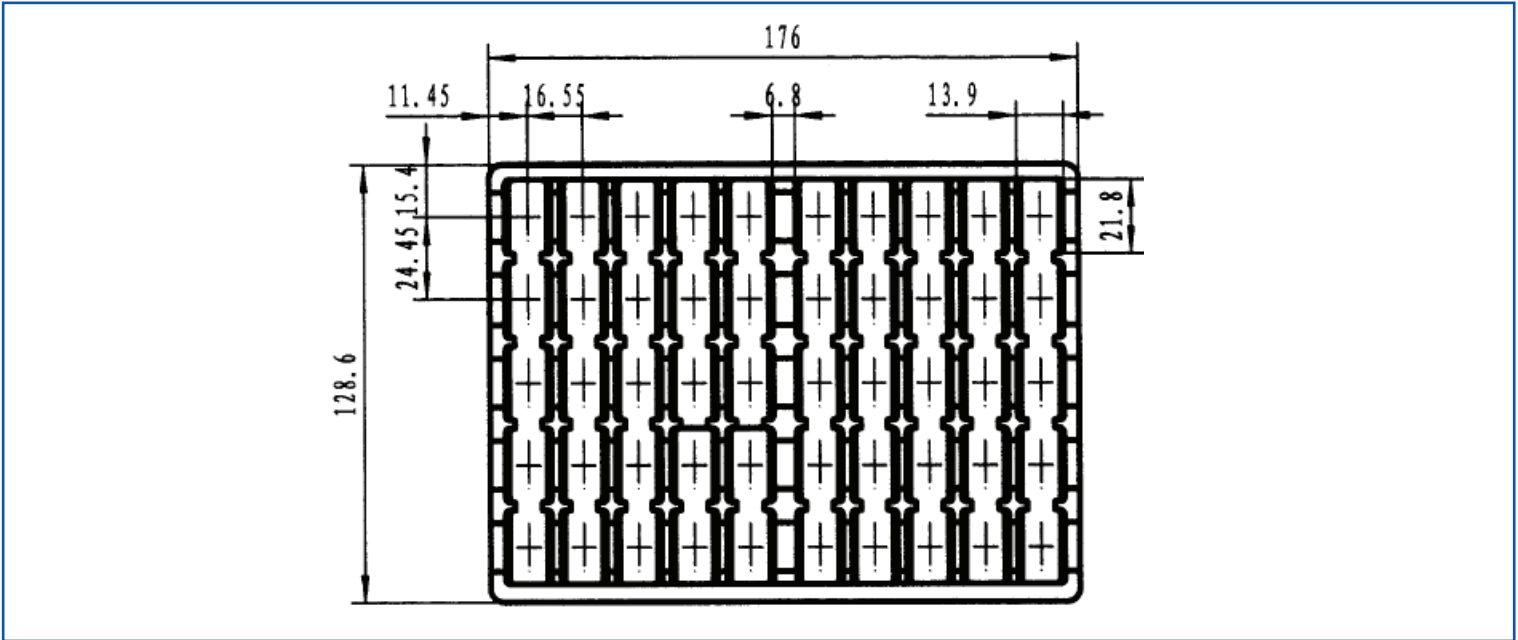


20.8 x 13.2 x 8.2 mm

REFLOW PROFILE:



PACKAGING: (50) units per tray



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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