



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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3.3V HCMOS/ TTL COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



5.0 x 3.2 x 1.3mm

ASFL1



FEATURES:

- Tri state function
- Suitable for high density SMT
- Available tight stability option +/-20ppm
- Seam sealed package assures high reliability performance
- Suitable for RoHS compliant reflow process

APPLICATIONS:

- CCD clock for VTR camera
- Equipment connected to PC or PC cards
- Thin equipment
- Wireless communication
- PDA, Laptop computer

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		0.321	-----	133.33	MHz	
Operating Temperature		-10	-----	+70	°C	See options
Storage Temperature		-55	-----	+125	°C	
Overall Frequency Stability		-100	-----	+100	ppm	See options
Supply Voltage (Vdd)		2.97	3.3	3.63	V	
Input Current	0.321MHz ~ 29.9MHz	-----	8	15	mA	
	30MHz ~ 79.9MHz	-----	20	45		
	80MHz ~ 133.33MHz	-----	28	85		
Symmetry (@ 1/2Vdd)		40	50	60	%	See options
Rise and Fall Time (Tr/Tf)	0.321MHz ~ 29.9MHz	-----	5	10	ns	
	30MHz ~ 79.9MHz	-----	5	7		
	80MHz ~ 133.33MHz	-----	3	7		
Output Load		-----	-----	15	pF	
		-----	-----	5	TTL	
Output Voltage	VOH	0.9*Vdd	-----	-----	V	
	VOL	-----	-----	0.1*Vdd	V	
Tri-state Function	VIH	0.7*Vdd	-----	-----	V	"1" or Open: Oscillation
	VIL	-----	-----	0.3*Vdd	V	"0": Output disable (Hi Z)
Disable Current				10	µA	
Start-up Time	0.321MHz ~ 29.9MHz	-----	1	10	ms	
	30MHz ~ 79.9MHz	-----	3	10		
	80MHz ~ 133.33MHz	-----	3	10		
Phase Jitter RMS (12kHz to 20MHz)		-----	-----	1	ps	Reference only. Please contact Abracon for specific frequencies
Aging		-5.0	-----	+5.0	ppm	@+25°C First year

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASFL1- MHz - -

Frequency in MHz
e.g. 24.576MHz
14.31818MHz
26.000MHz

Operating Temp.
I: 0°C ~ +50°C
D: -10°C ~ +60°C
E: -20°C ~ +70°C
F: -30°C ~ +70°C
N: -30°C ~ +85°C
L: -40°C ~ +85°C

Freq. Stability
J: ± 20 ppm(*)
R: ± 25 ppm
K: ± 30 ppm
H: ± 35 ppm
B: ± 40ppm
C: ± 50 ppm

Symmetry
Blank: 40/60% @1/2Vdd
S: 45/55% @1/2Vdd

Packaging
Blank: Bulk
T: 1000pcs/reel
T2: 250pcs/reel

(*) Temp option I, D, E and -10°C ~ +70°C only.



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 04.13.11**
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3.3V HCMOS /TTL COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR

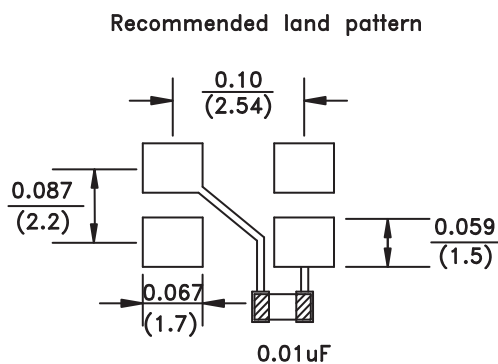
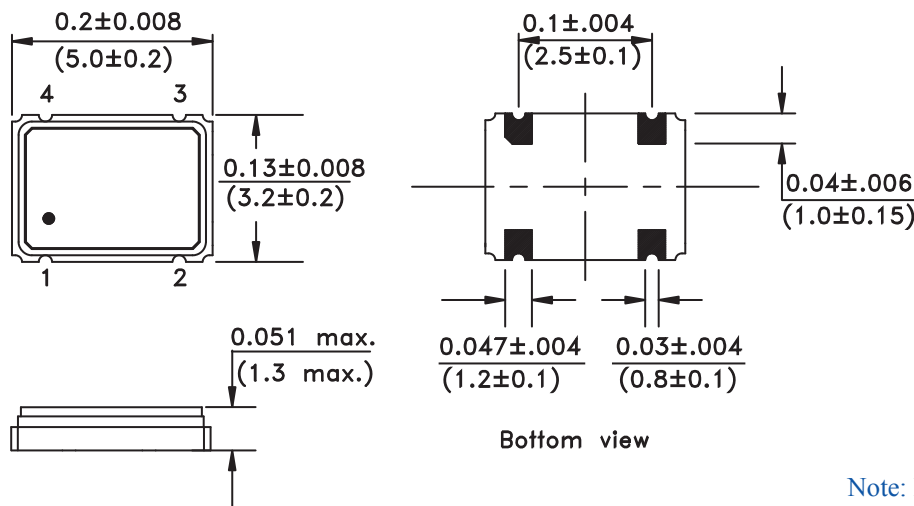


5.0 x 3.2 x 1.3mm

ASFL1



OUTLINE DRAWING:



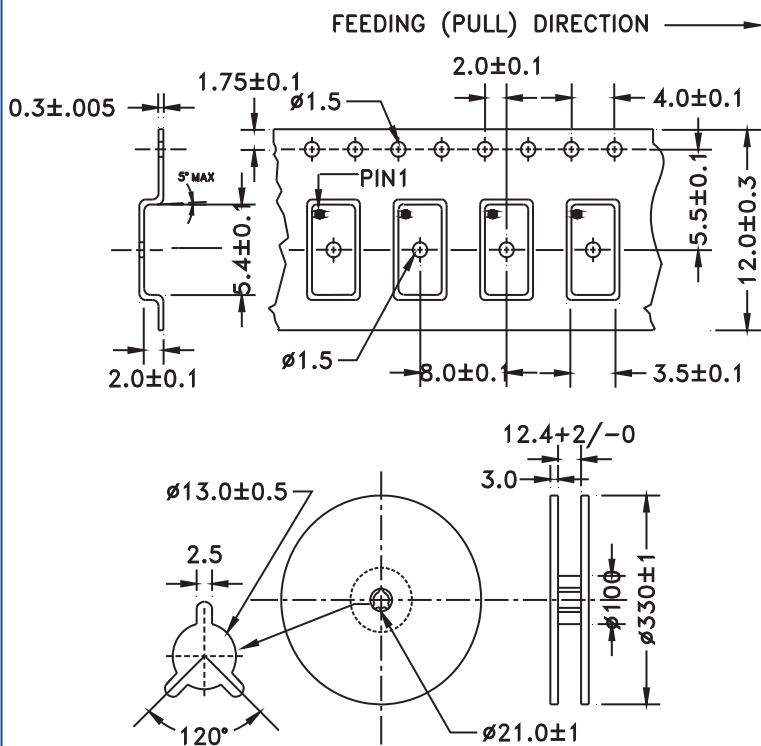
Pin	Function
1	Tri-State
2	GND
3	Output
4	Vdd

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

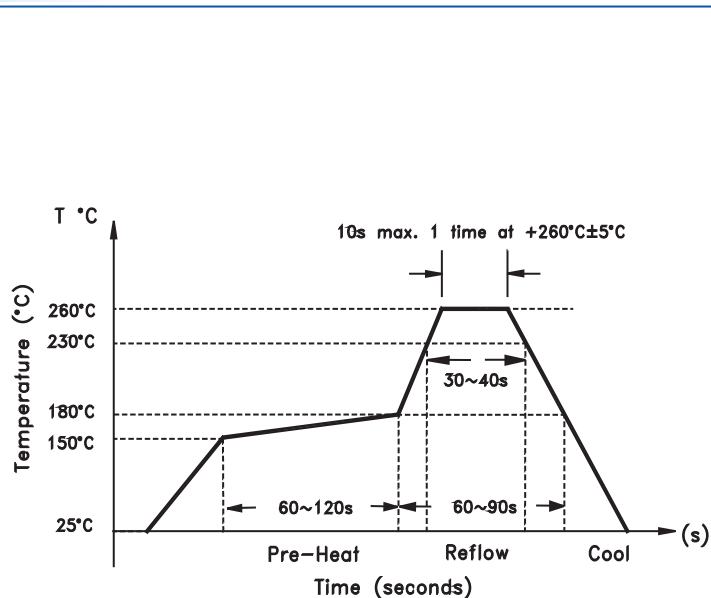
Dimensions: inches (mm)

TAPE & REEL:

T= Tape and reel (1,000pcs/reel) Dimensions: mm
T2= Tape and reel (250pcs/reel)



REFLOW PROFILE:



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