# 3.3V HCMOS/ TTL COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR

#### ASFL1





5.0 x 3.2 x 1.3mm

#### **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

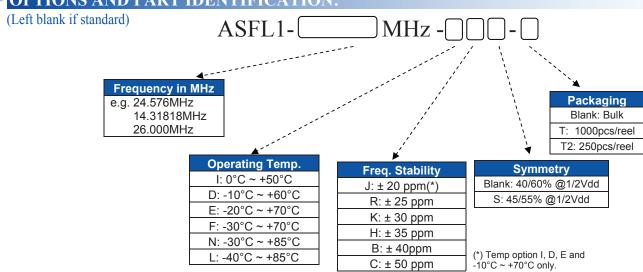
#### > APPLICATIONS:

- 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	
_	$30 MHz \sim 79.9 MHz$			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 VOL			0.9*Vdd			V	
		VOL			0.1*Vdd	V	
Tri-state Function VIH		VIH	0.7*Vdd			V	"1" or Open: Oscillation
		VIL			0.3*Vdd	V	"0": Ouput 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:







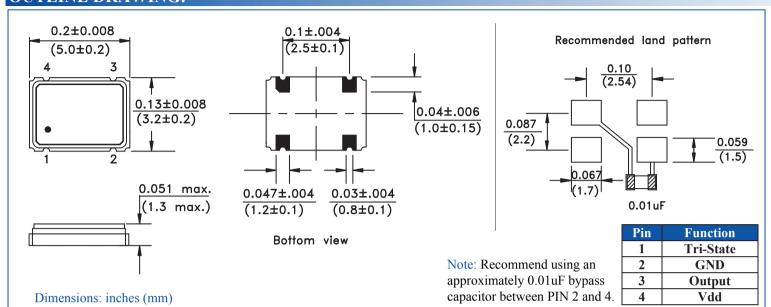
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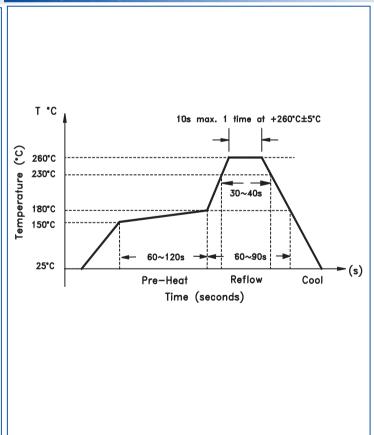
**OUTLINE DRAWING:** 



#### **►TAPE & REEL:**

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#### **REFLOW PROFILE:**



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