TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR





ESD Sensitive





5.0 x 3.2 x 1.05mm

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

FEATURES:

- Highly reliable seam-sealed package
- Low current consumption
- Low phase noise and jitter
- Industrial grade tight temperature stability (±5.0ppm / -40 to +85°C)
- Fast start-up time
- CMOS output with Tri-state function

> APPLICATIONS:

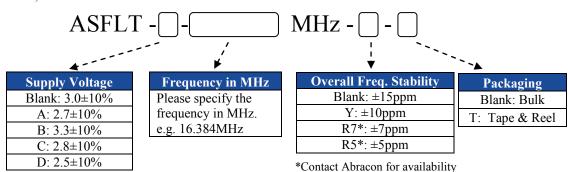
- Home networking by AC socket
- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	4		54	MHz	
Standard Frequencies	5, 10, 12, 16, 16.	384, 19.44, 20, 24	, 26, 32, 40, 44	MHz	
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Overall Frequency Stability*	-15		+15	ppm	See options
Supply Voltage (Vdd)	+2.7	3.0	+3.3	V	See options
Supply Current (Idd)			7.0	mA	
Stand-by Current			10	uA	
Symmetry	45		55	%	@ 1/2Vdd
Rise and Fall Time (Tr/Tf)			5.0	ns	10%Vdd-90%Vdd
Output Load			15	pF	CMOS
Output Voltage (VOH)	0.9* Vdd			V	
Output Voltage (VOL)			0.1* Vdd	V	
Start-up Time		0.2	3.0	ms	
RMS Jitter		3.0		ps	
Tri-state function (Stand-by)	Pin #1: "1"(VIH≥ 0.7*Vdd) or Open: Oscillation Pin #1: "0" (VIL<0.3*Vdd): (Hi-Z)				
Phase Noise		-143		dBc/Hz	@10kHz offset
Aging@+25°C	-2		+2	ppm	First year
	-7		+7		10 years

> OPTIONS AND PART IDENTIFICATION:

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ASFLT SERIES



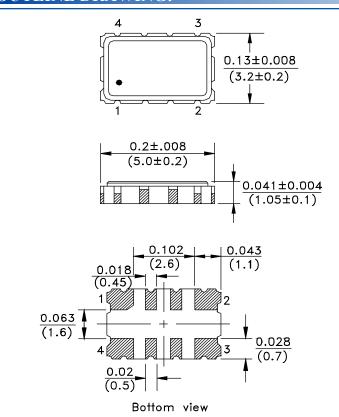
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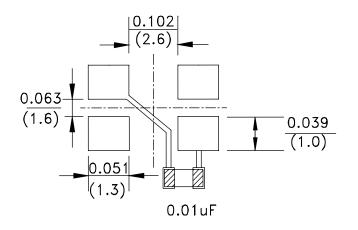


5.0 x 3.2 x 1.05mm

OUTLINE DRAWING:



Recommended land pattern



Resist layer is required on the path for the by-pass capacitor.

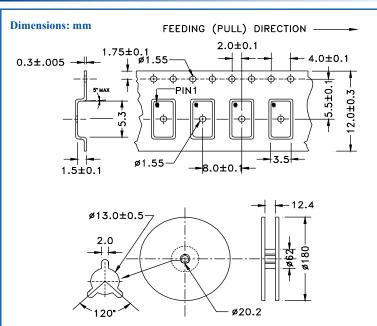
Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 2 and 4.

1	CE
2	GND
3	Output
4	VDD

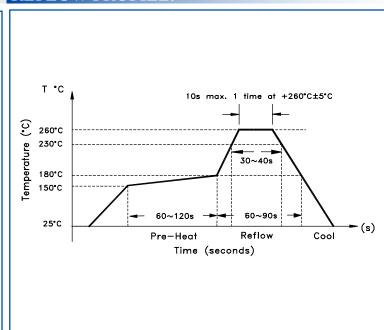
FUNCTION

Dimensions: Inches (mm)

TAPE & REEL: (1,000 pcs/reel)



REFLOW PROFILE:



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