

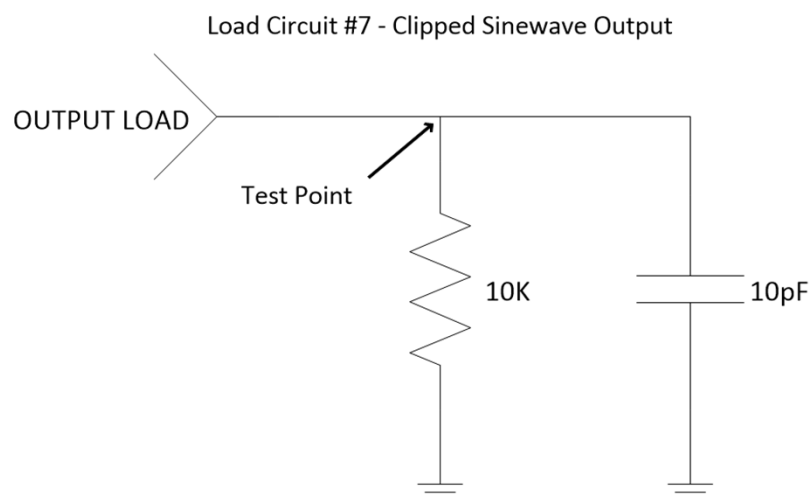
ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F ₀	40.000000			MHz	
Frequency Stabilities						
Initial Accuracy		-1.0		+1.0	ppm	@ +25°C
vs. Operating Temperature	ΔF/F			+0.5	ppm	(FMAX-FMIN)/2
vs. Supply Voltage			±0.02	±0.1	ppm	5% voltage variation
vs. Load			±0.02	±0.1	ppm	5% load variation
vs. Aging		-2.0		+2.0	ppm	1 st Year
		-5.0		+5.0	ppm	10 years
RF Output						
Output Type		Clipped Sinewave				
Output Logic Level		1.0			Vpk-pk	
Output Load			10 10		kΩ pF	Refer to the load circuit diagram
Tristate Function		70%V _{CC} or Open			V	Output Enabled
				30%V _{CC}	V	Output Disabled: to HIGH Impedance (Z)
Start-up Time	T _{SU}			10	ms	
Frequency Adjustment						
Control Voltage Range	V _c	0.3		3.0	V	
Tuning Range		±5.0			ppm	
Linearity				3	%	
Modulation Bandwidth		2			kHz	
Input Resistance		100			kΩ	
Additional Specifications						
SSB Phase Noise			-98		dBc/Hz	@ 10Hz Offset
			-128		dBc/Hz	@ 100Hz Offset
			-149		dBc/Hz	@ 1kHz Offset
			-159		dBc/Hz	@ 10kHz Offset
			-159		dBc/Hz	@ 100kHz Offset
			-159		dBc/Hz	@ 1MHz Offset
G-sensitivity			1.6		ppb/g	
Operating Voltage and Current						
Operating Voltage	V _{CC}	3.135	3.300	3.465	V	
Operating Current	I _C			4.5	mA	
Temperature						
Operating Temperature		-40		+85	°C	
Storage Temperature		-55		+125	°C	

ENVIRONMENTAL CONDITIONS

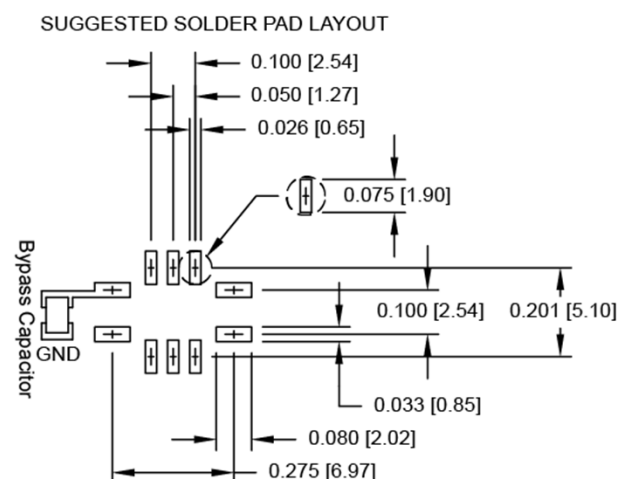
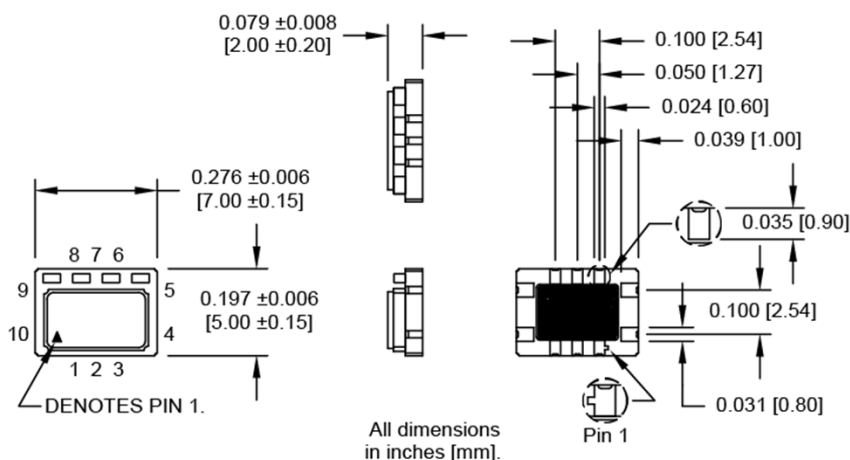
Shock	Per MIL-STD-202, Method 213, Condition C
Vibration	Per MIL-STD-202, Methods 201 & 204
Solderability	Per EIAJ-STD-002
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of helium)
Thermal Shock	Per MIL-STD-883, Method 1011, Condition A
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B

LOAD CIRCUIT DIAGRAMS

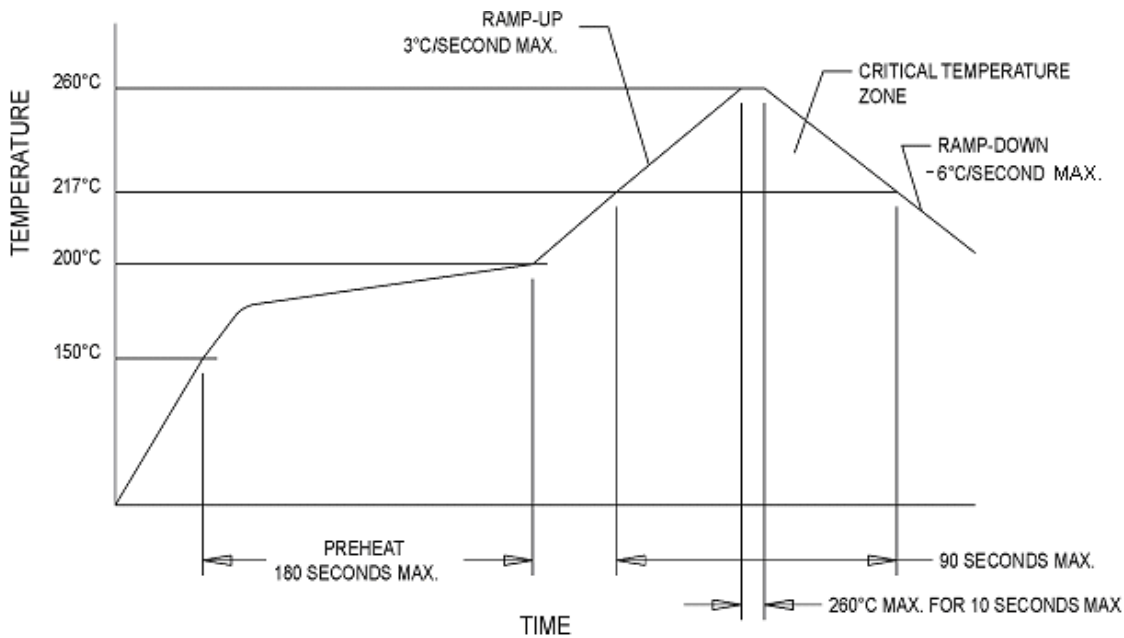


MECHANICAL AND PIN OUT INFORMATION - Package Code N (10 Pad)

Pad	Function
1	N/C – Do Not Connect
2	N/C – Do Not Connect
3	N/C – Do Not Connect
4	Ground
5	Output
6	N/C – Do Not Connect
7	N/C – Do Not Connect
8	Tristate or N/C - Do Not Connect
9	Supply Vcc+
10	Voltage Control

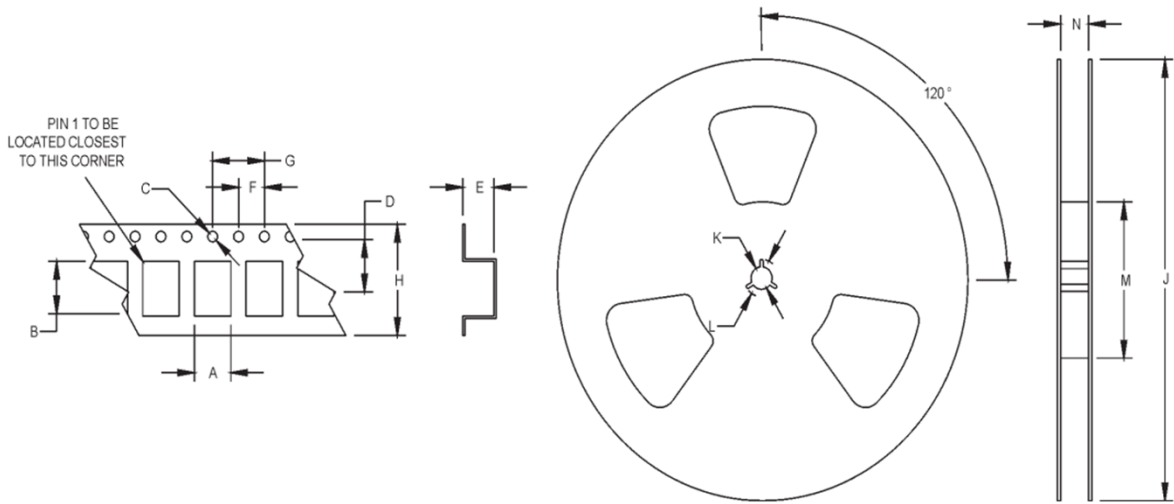


LEAD FREE SOLDER PROFILE



TAPE AND REEL SPECIFICATIONS

All units in mm



A	B	C	D	E	F	G	H	J	K	L	M
5.32	7.28	1.5	7.5	2.2	4	8	16	178	13.5	24.8	80

Data Sheet Revision Table

Date	Rev	Author	Details of Revision
1/05/22	A	MM	Original Release
2/14/22	B	MM	Updated supply current specification limit.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice.
No liability is assumed as a result of their use or application.