ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Frequency	F_0		25.641025		MHz	
Frequency Stabilities						
Initial Tolerance		-1.0		+1.0	ppm	@ +25°C
vs. Operating Temperature	$\Delta F/F$			1.0	ppm	(FMAX-FMIN)/2
vs. Reflow		-1		+1	ppm	
vs. Supply Voltage			±0.02	±0.1	ppm	±5 % change in voltage Note 1
vs. Load			±0.02	±0.1	ppm	±5 % change in load Note 1
vs. Aging		-1.0 -5.0		+1.0 +5.0	ppm ppm	1st Year 10 years
RF Output						
Output Type			CMOS			
Output Load			15		pF	CMOS Load Note 2
Waveform Symmetry (duty cycle)	T_{DC}	45	50	55	%	@ 50% of waveform (CMOS)
Output Logic Level (CMOS)	V_{OL}			10	$\%V_{CC}$	Vcc = +3.3 V and 15pF Load
	V_{OH}	90			$\%V_{CC}$	Vcc = +3.3 V and 15pF Load
Rise/Fall Time	T_R/T_F			6.5	ns	10% to 90% Vcc
Start-up Time	T_{SU}			10	ms	
Tristate Function		80% or Open			$\%V_{CC}$	Output Enabled
				20	$\%V_{CC}$	Output Disabled: to HIGH Impedance (Z)
Frequency Adjustment						
Control Voltage Range	Vc	0.3	1.65	3.0	V	
Tuning Range		±9.5			ppm	
Linearity				5	%	
Modulation Bandwidth		2			kHz	
Input Resistance		100			kΩ	
Phase Noise						
SSB Phase Noise (measured @ 26 MHz)			-98		dBc/Hz	@ 10Hz Offset
			-127		dBc/Hz	@ 100Hz Offset
			-148		dBc/Hz	@ 1kHz Offset
			-156		dBc/Hz	@ 10kHz Offset
Operating Voltage and Current						
Operating Voltage	V_{CC}	3.135	3.300	3.465	V	
Operating Current	I_C			5.0	mA	
Temperature						
Operating Temperature		-40		+85	°C	
Storage Temperature		-55		+125	°C	
Notes						
Note 1	To be verified on first article units.					
Note 2	Refer to the load circuit diagram on page 2.					

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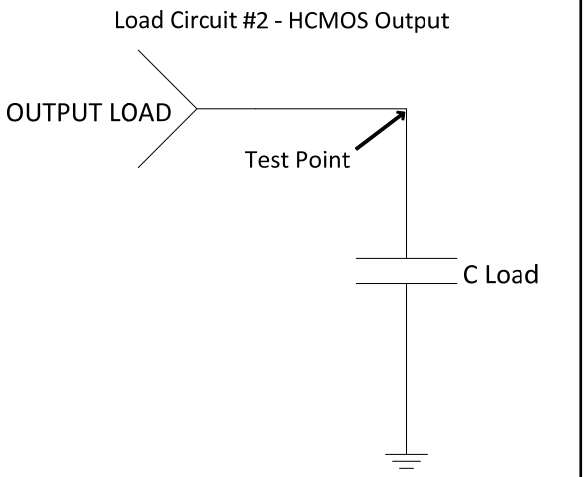
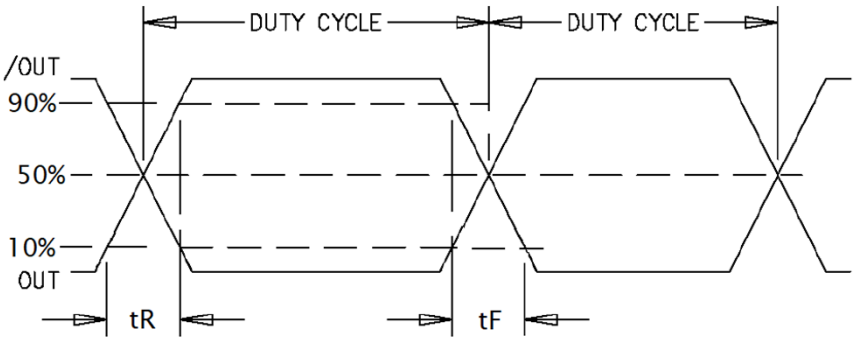
ENVIRONMENTAL CONDITIONS

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





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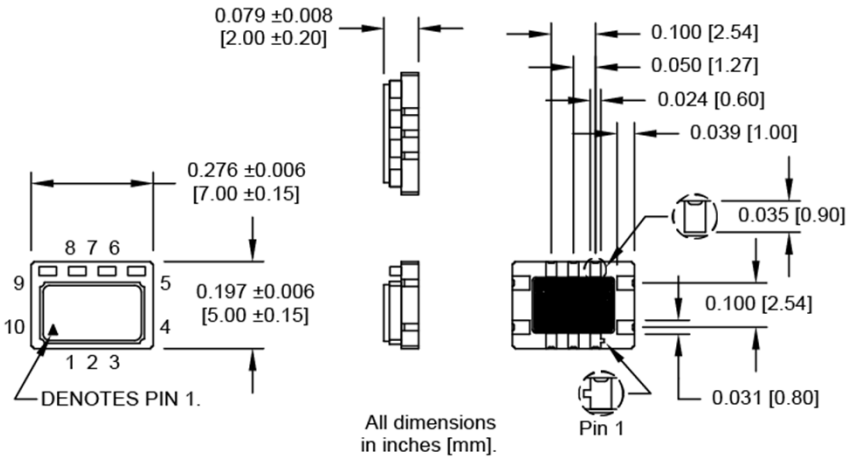
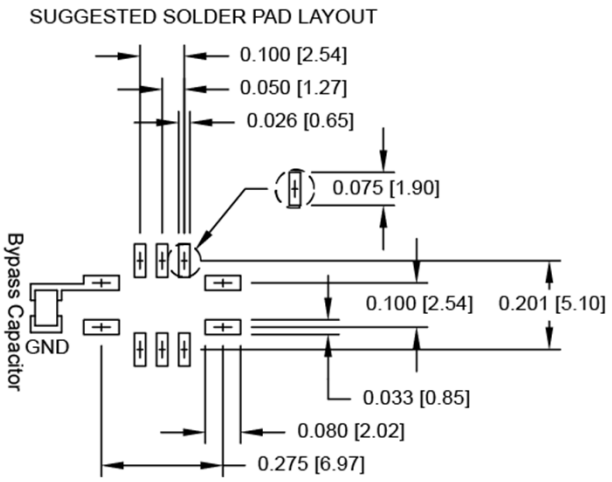
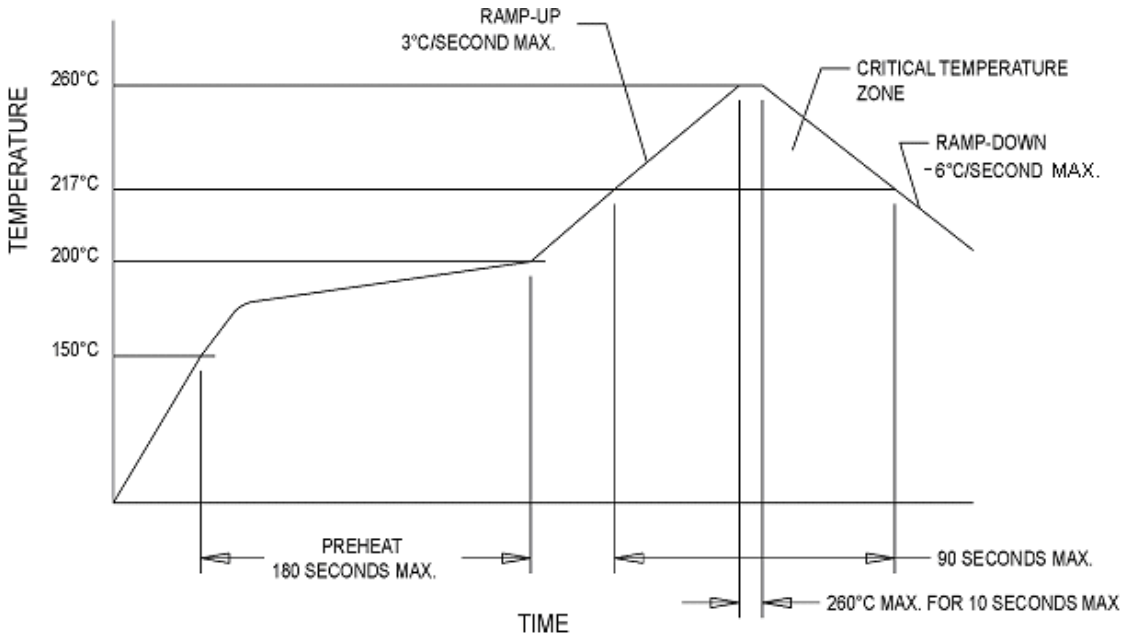
MECHANICAL AND PIN OUT INFORMATION - Package Code N (10 Pad)

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



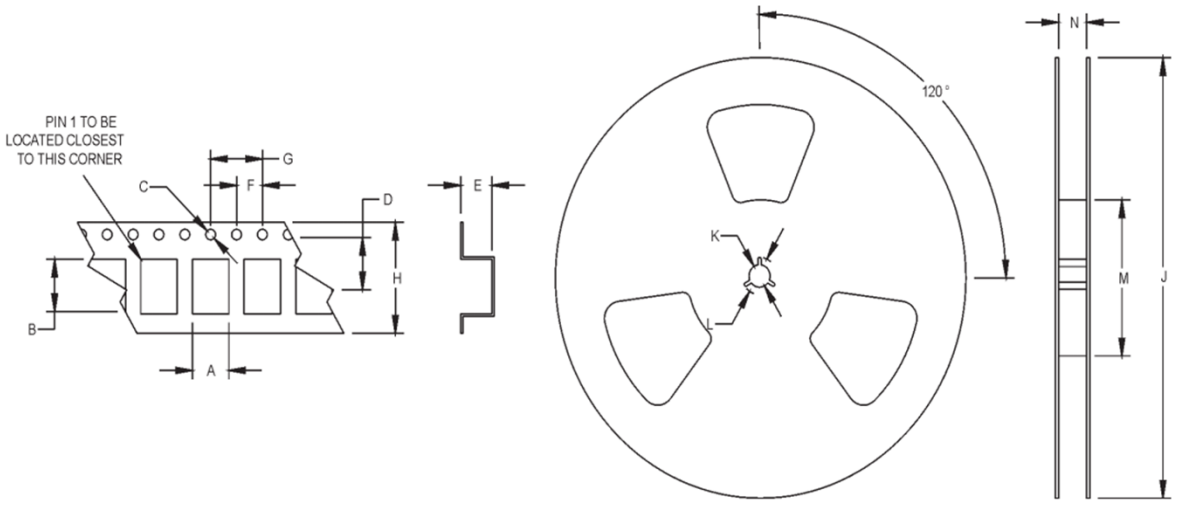


LEAD FREE SOLDER PROFILE



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
9/01/21	A	MM	Original Release

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.

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