

## Specification for an HCMOS SMD OCXO

### MtronPTI P/N: XO5084-073sR

#### Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	$F_O$		80.000000		MHz	
Initial Frequency		-500		+500	ppb	At time of shipment
<b>Frequency Stabilities</b>						
vs. Temperature	$\Delta F_T/F$	-0.5		+0.5	ppm	Over the Operating Temperature Range, Ref @ 25°C
vs. Supply voltage variation		-200		+200	ppb	5% change in supply voltage
1 Year Aging		-1.0		+1.0	ppm	
10-Years Aging		-3.0		+3.0	ppm	
<b>RF Output</b>						
Output Type		HCMOS Compatible				
Output Load				10    10	pF/K $\Omega$	
Symmetry (duty cycle)	$T_{DC}$	40	50	60	%	@ 50% of waveform
Rise/Fall Time	$T_R/T_F$			10	ns	From 10% to 90% $V_{OUT}$
Logic "1" Level	$V_{OH}$	90% $V_{DD}$			V	HCMOS Load
Logic "0" Level	$V_{OH}$			10% $V_{DD}$	V	
<b>Additional Parameters</b>						
Phase Noise (Under Static Conditions)			-98		dBc/Hz	10Hz Offset
			-124		dBc/Hz	100Hz Offset
			-144		dBc/Hz	1kHz Offset
			-154		dBc/Hz	10kHz Offset
			-156		dBc/Hz	100kHz Offset
			-158		dBc/Hz	1MHz Offset
			-160		dBc/Hz	5MHz Offset
Warm-up Time				5	minutes	To within $\pm 0.1$ ppm of the frequency after 1-hour of operation @ 25°C
<b>Temperature, Supply Voltage &amp; Power Consumption</b>						
Operating Temperature	OTR	-40		+85	°C	Full Specification Compliance
Storage Temperature	STR	-55		+85	°C	
Operating Voltage	$V_{CC}$	+3.135	+3.3	+3.465	$V_{DC}$	
Power Consumption				2.0	Watts	Steady state @ 25°C, In Still Air
				4.0	Watts	@ Warm-up

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#### Environmental Conditions:

Seal	Hermetic
Shock	MIL-STD-202, Meth 213, Cond. C
Vibration	MIL-STD-202, Meth 204, Cond. C

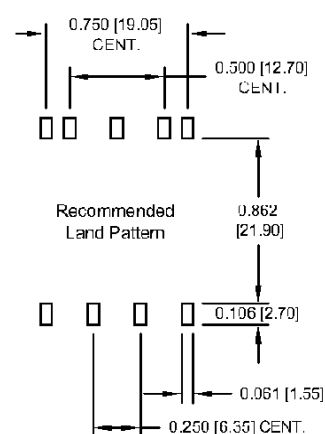
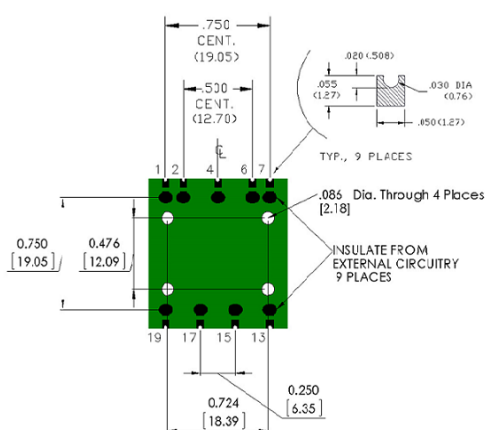
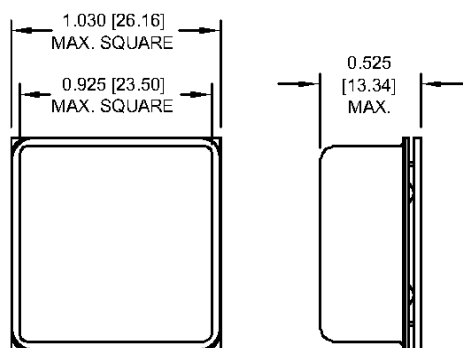
#### Mechanical, Marking and Layout Information:

Part Marking
MtronPTI
XO5084-073sR
80.0000MHz
Serial Number
Date Code

Legend	
yy	Year
ww	Work Week

Pin	Function
1	RF Output
2	N/C
4	Case Gnd.
6	N/C
7	N/C
13	N/C
15	N/C
17	N/C
19	Supply Voltage

#### Mechanical, Marking and Layout Information:

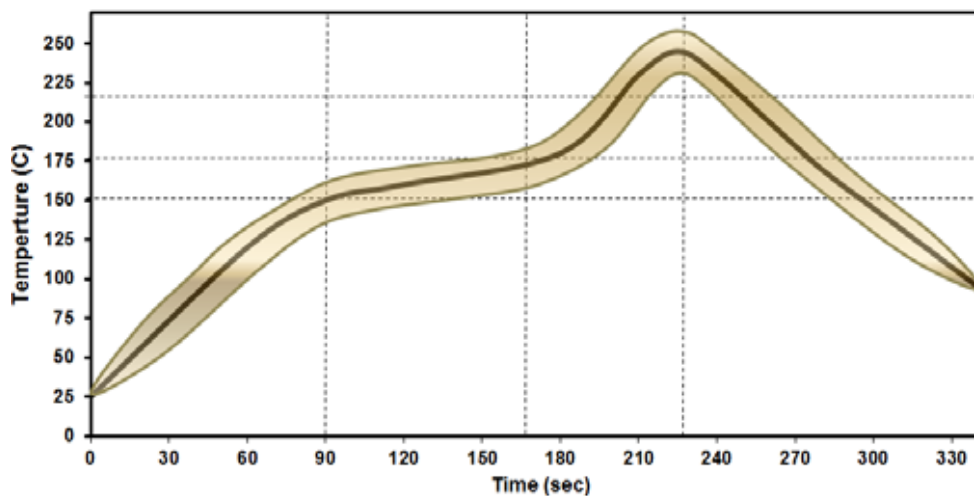


All dimensions are in inches [mm].

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES  
DECIMALS  
.XX ± .01  
.XXX ± .005

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### Reflow Profile:



### Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision
08-16-19	D	BRR	Revised Part Marking
05-01-19	C	MM	Added Initial tolerance, reflow profile and made corrections to stability spec.
04-17-19	B	MM	Updated supply voltage
04-11-19	A	MM	Original release