



Specification for an HCMOS SMD OCXO MtronPTI P/N: XO5084-034sR

Electrical Specifications:

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Nominal Frequency	Fo		10.000000		MHz	
Initial Tolerance		-1.0		+1.0	ppm	Time of shipment
Frequency stability vs data of barcode label. Incl. supply voltage range, load variation, aging, retrace and reflow.	∆F1/F1	-50		+50	ррb	Oscillator mounted and soldered on a PCB using a reflow soldering process, stored at RH < 10% during 18 months. Then put into power-on. Frequency measured after power-on for 24h. T=+40°C (Shock, moisture and direction of mounting excl.)
Frequency stability vs. data of barcode label. Incl. supply voltage range, load variation, aging, retrace and reflow.	∆F1/F1	-50		+50	ррb	Oscillator mounted and soldered on a PCB using a reflow soldering process. Then put into power-on. Frequency measured after aging during 3 months in continuous power-on. $T=+40^{\circ}C$ (Shock, moisture and direction of mounting excl.)
Frequency stability vs. data of barcode label. Incl. supply voltage range, load variation, aging, retrace and reflow.	∆F1/F1	-30		+30	ррb	Oscillator mounted and soldered on a PCB using a reflow soldering process. Then put into power-on. Frequency measured after aging during 1 month in continuous power-on. T=+40°C (Shock, moisture and direction of mounting excl.)
Frequency stability vs. data of barcode (At shipment, aging excl.)	ΔF1/F1	-20		+20	ррb	Oscillator mounted and soldered on a PCB using a reflow soldering process. Then put into power-on. Frequency measured after 1h of operation at T = +40°C, Vcc= 5.0V _{DC} , CL=15pF g to barcode marking.





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Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
	· ·	Frequency	/ Stabilitie	s		
vs. Temp.range		-10		+10	ppb	T= +40°C, +5°C to +70°C
vs. Supply Voltage		-5		+5	ppb	±5% change in voltage
vs. Load		-5		+5	ppb	15pF to 20pF
25 Year Aging		-4		+4	ppm	
		RF C	output			
Output Type			HCMOS			
Output Load		15		20	рF	
Symmetry (duty cycle)		45	50	55	%	@ 50%V _{CC}
Rise/Fall Time				10	ns	From 10% to 90% (V _{OH} - V _{OL})
Logic "1" Level	Vон	4.5			V	
Logic "0" Level	Vol			0.5	V	
	Tem	perature an	d Supply	Voltage		
Operating Temperature		+5		+70	°C	
Storage Temperature		-55		+85	°C	
Operating Voltage	Vcc	4.75	5.0	5.25	V _{DC}	
Power Consumption				1.5	Watts	Steady state @ 25°C, In Still Air
				< 3.0	Watts	@ warm-up
Oven Alarm		2.5			V	Heater ready
				0.4	V	Heater NOT ready
Warm-up Time	ΔF/F			5	Minutes	To be within ±40 ppb of the frequency after 1h of operation
ΔF= Frequency deviation from	n the final frequenc	y after 1h of	operation.	F= Frequer	ncy after 1h of c	peration.

Environmental Conditions:

Solderability	Per EIAJ-STD-002
Soldering Conditions	See Figure 2
RoHS	Sn96 solder is utilized throughout the construction of this OCXO with the exception that Sn10 is utilized to solder the surface mount adapter board to the OCXO.

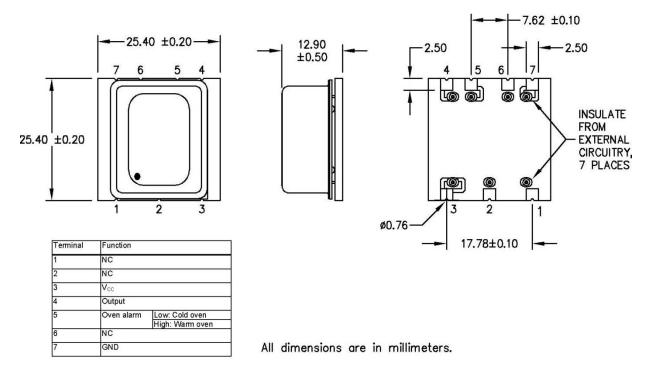


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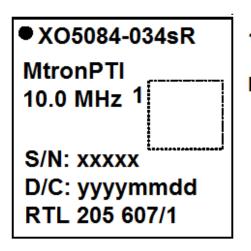


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Mechanical, Marking and Layout Information:



Barcode marking according to Figure 1, with QR-code the actual frequency deviation and date when measured, other marking see Ericsson 105 63-2031.



1: QR Code

Example of Contents of QR Code 4-Digits: f/fo ppb at 40^oC (+123 or -123) 8-Digits: Manufacturing Date (20070823) 5-Digits: Serial Number (12345)

Figure 1





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Recommended Reflow Profile:

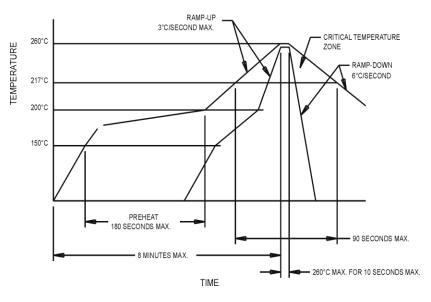


Figure 2

Data Sheet Revision Table:

Date	Rev.	Orig.	Details of Revision	
03/06/12	6	BRM	Updated package outline drawing	
02/08/12	5	BRM	Updated package outline drawing to reflect larger PAD size	
01/26/12	4	BRM	Modified package outline drawing to reflect a 12.9mm ±0.5mm height	
01/10/12	3	BRM	Updated the outline drawing & marking label	
8/28/11	2	BRM	Added additional stability vs data of barcode specification point @ 1-month power on. Also updated Ericsson P/N Rev level from B to C	
4/6/11	1	BRM	Added example of label marking contents	
3/25/11	0	BRM	Original Release.	