



应达利电子（深圳）有限公司

INTERQUIP ELECTRONICS (SHENZHEN) CO., LTD

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Web: www.interquip.com Email: iqlsz@interquip-china.com

Customer Approval Sheets

Product: Crystal Oscillator

Description: Temperature compensated Crystal Oscillator

IQG P/N: TC802-25.000-DTAKA

Ref No:

Approval Section:			
Date:			
Customer:		Attn:	
DEPT.	DEPT.	DEPT.	DEPT.

Customer Part Number

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Prepared by:		Checked by:		Approved by:
孙晓明 2013.05.03				



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SPECIFICATION

PART NUMBER: **TC802-25.000-DTAKA**

1 Scope

- 1.1 This is Analog Temperature Compensated Crystal Oscillator. It can be applied to electronic equipment, smart cell-phone. It is lead-free product and it can satisfy RoHs requirements.

2 Construction

2.01 Type of Oscillators: **Temperature Compensated Crystal Oscillators**

2.02 Dimension: **3.2mm*2.5mm*1.0mm SMD 4 pads**

2.03 Marks: **Q+Frequency+TC+DateCode+LotCode**



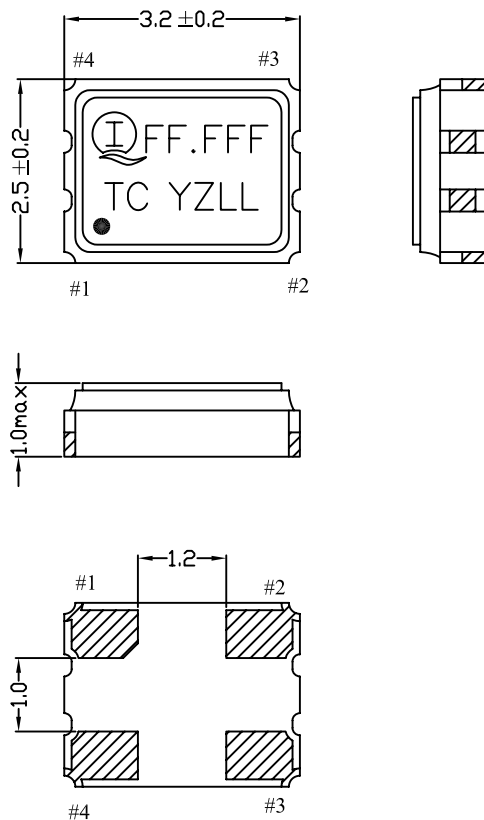
Frequency

• **TC DCLC**

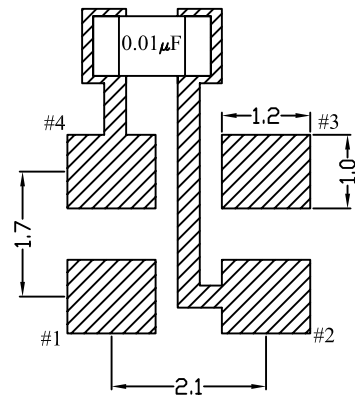
3 Electrical Characteristics

3.01 Nominal Frequency:	25.000MHz		
3.02 Frequency Tolerance :	±1.0ppm at 25℃ ±2℃ refer nominal Frequency at time of shipment		
3.03 Frequency Stability vs Temperature:	±2.0ppm from -40℃ to 85℃ refer 25℃		
3.04 Frequency Stability vs Voltage:	±0.3ppm VDD±5%		
3.05 Frequency Stability vs Load:	±0.3ppm 10kΩ//10pF±5%		
3.06 Aging:	±2ppm/year		
3.07 Operating Temperature Range:	-40℃ to +85℃		
3.08 Storage Temperature Range:	-40℃ to +90℃		
3.09 Power Supply Voltage (VDD):	3.3Vdc±5%		
3.10 Current Consumption (IDD):	3.0mA max		
3.11 Output Waveform:	Clipped Sine		
3.12 Output Symmetry:	50±10%		
3.13 Output Level:	0.8Vp-p min		
3.14 Output Load:	10kΩ//10pF		
3.15 Start-up Time:	3.0ms max		
3.16 Phase Noise:	-85dBc/Hz	at 10Hz	offset
	-100dBc/Hz	at 100Hz	offset
	-130dBc/Hz	at 1kHz	offset
	-145dBc/Hz	at 10kHz	offset
	-150dBc/Hz	at 100kHz	offset

EXTERNAL DIMENSIONS



RECOMMENDED SOLDERING PATTERN



PIN	CONNECTION
#1	N.C
#2	GROUND
#3	OUTPUT
#4	VDD

MARKING SPECIFICATIONS

 — INTERQUIP company's logo

FF.FFF — REPRESENT FREQUENCY (MHz), THE SIGNIFICANT DIGIT IS RESERVED 3 DIGIT BEHIND DECIMAL POINT

TC — REPRESENT TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

YZ — REPRESENT MONTH & YEAR CODE RESPECTIVELY
" Y " :

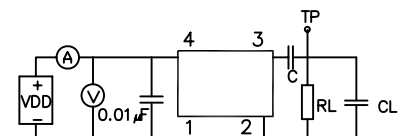
MONTH	Jan	Feb	Mar	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
MARK	A	B	C	D	E	F	G	H	J	K	L	M

" Z " CODE IS THE LAST NUMBER OF PRODUCTION YEAR
FOR INSTANCE:

YEAR	2011	2012	2013	2014	2015
MARK	1	2	3	4	5

LL — REPRESENT LOT CODE (AA-ZZ)

SINE TEST CIRCUIT

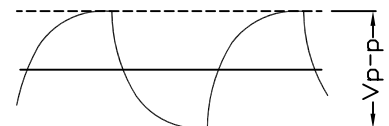


CL=10pF (including fixture and probe capacitances)

RL=10kOhm

C: FOR DC BLOCKING

TYPICAL CLIPPED SINE WAVE FORM



- NOTES: 1. DO NOT SCALE DRAWING
2. ALL DIMENSIONS ARE IN MM



Interquip Electronics Co.,Ltd

TITLE				DWN.	
TCXO				M_Zhao	
PART NO.				DATE	
MODEL TC801/TC802 SERIES				2012.9.18	
REMARK				CHKD	
				Xm_Sun	
				DATE	
				2012.9.18	
				APPD.	
				Ching Kin Lau	
				DATE	
				2012.9.18	
DATE	MODIFY DESCRIPTION	BY		DWG.NO. 004-06339-015	
				REV. 0	