

3.2X2.5 (VC)TCXO

SPECIFICATIONS

(19.68MHz)

DELTA ELECTRONICS, INC.

 台达电子工业股份有限公司 DELTA ELECTRONICS, INC.	DESCRIPTION : SPECIFICATIONS		
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Date	Drawn	Checked	Approved
2003/9/9	Hui.Zhang	Guizhi.Liu	Luwei.Lee

ELECTRICAL CHARACTERISTICS

ITEM	SYMB	SPEC			UNIT	CONDITION	
		MIN	TYP	MAX			
NOMINAL FREQUENCY	Fout	-	19.68	-	MHz		
POWER SUPPLY	Vdd	2.5	3.0	3.5	V		
POWER SUPPLY CURRENT	Ic	-	-	2.2	mA		
OPERATION TEMPERATURE	T	-30	-	80	Deg		
STORAGE TEMPERATURE	Tstg	-40	-	+85	Deg		
FREQUENCY STABILITY	VS. POWER SUPPLY	Sp	-0.2	-	+0.2	PPM	Vdd±5%,Vdd>=2.5V
	VS. LOAD	S1	-0.2	-	+0.2	PPM	Load±10%
	VS. TEMPERATURE	St	-2.5	-	+2.5	PPM	-30Deg~80Deg
FREQUENCY TOLERANCE	Ft	-2.0	-	+2.0	PPM	25±2Deg	
FREQUENCY AGING RATE	-	-1.0	-	+1.0	PPM/Y	25±2Deg	
FREQUENCY CONTROL	CONTROL VOLTAGE	Vt	0.5	1.5	2.5	V	
	SLOPE	-	POSITIVE			-	
	SENSITIVITY	Sen.	9	-	16	PPM/V	
START UP TIME	-	-	-	4	ms	90% Final Vout Lavel	
2 nd HARMONICS	-	-	-	-7	dBc		
PHASE NOISE	-	-	-	-140	dBc/Hz	10KHz	
OUTPUT	WAVE FORM	-	CLIP SINE WAVE			-	
	PEAK TO PEAK VOLTAGE	Vp-p	0.8	-	-	V	
	LOAD	-	10K //10pF			-	
PACKAGE	-	3.2*2.5*1.5			mm		



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DOCUMENT NO. :
V19.68Y2C-ES

REV.
00

Date
2003/9/9

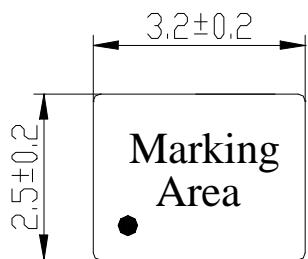
Drawn
Hui.Zhang

Checked
Guizhi.Liu

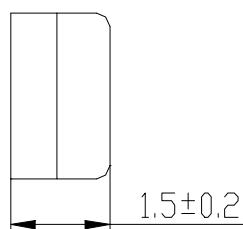
Approved
Luwei.Lee

PackageOutline

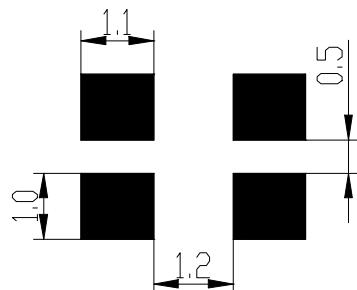
Top View



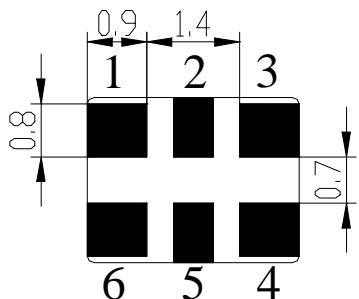
SIDE View



LAND PATTERN



Bottom View



PIN OUT FOR VCTCXO	
PIN	PIN CONNECT
1	Vt
2	Floating
3	GND/CASE GND
4	Fout
5	Floating
6	Vdd



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