


3.2X2.5 (VC)TCX0

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	DOCUMENT NO. : V19.68Y2C-ES	REV.
2003/9/9	Hui.Zhang	Guizhi.Liu	Luwei.Lee		00

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	Sl	-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 Level
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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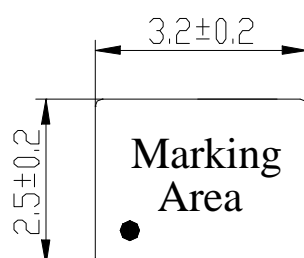
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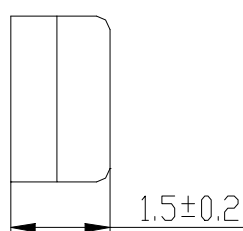
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Package Outline

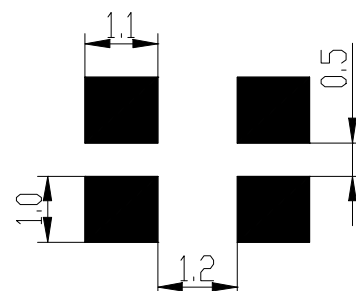
Top View



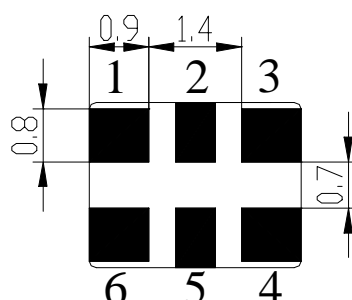
SIDE View



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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