

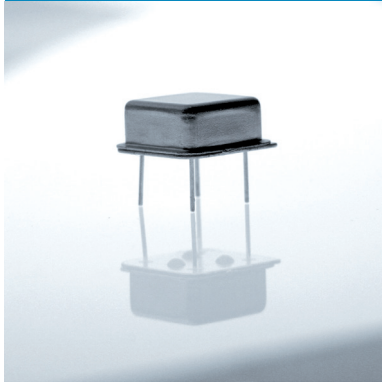
DATENBLATT / DATASHEET



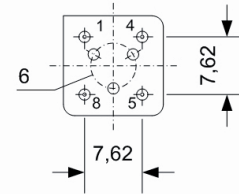
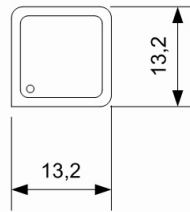
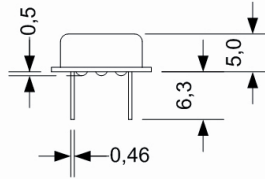
Specification: QTXTH04

Oszillator: VCTCXO

Date: 27.03.2009
ROHS compliance



ENCLOSURE
DIL 8



PIN CONNECTIONS
1 V_c
7 Gnd
8 RF output
14 V_{DD}

PARAMENTER	MIN	TYP	MAX.	UNIT	NOTE
Frequency range	10		40	MHz	¹⁾
Frequency stability					
Nominal tolerance		± 3		ppm	$V_c = V_{dd} / 2$
vs. temperature in operating temp. range		± 1.0		ppm	²⁾
vs. supply voltage			± 0.2	ppm	
vs. load change			± 0.2	ppm	
aging			± 1	ppm	+25°C
Frequency adjustment					
Voltage control sensitivity	7		15	ppm / V	
Voltage control range	0		V_{DD}	V	
slope ($\Delta f / \Delta V_c$)		positive			
Supply voltage V_{DD}		3.3		V	
Current consumption		6		mA	
RF output					
Signal waveform		CMOS			
load		10		pF	
duty cycle		45 - 55		%	
rise / fall time		3		ns	
start-up time		2		ms	
Operating temperature range	-40		+85	°C	
Storage temperature range	-45		+120	°C	
Phase noise		< -120		dBc/Hz	at 100Hz
Enclosure	DIL-8				(see drawing)
ESD rating (HBM)			2	kV	

Note: ¹⁾ $f_{min} = 5.0$ MHz, divider $f_0 / 2$

²⁾ $df_0 = \pm 0.3$ ppm at temperature range +10 ... +50 °C