Temperature Compensated Crystal Oscillators --TF/VTF

SPECIFICATIONS:

Frequency Range(for TTL/CMOS output)	1.25MHz~36MHz	
Frequency Range(for Clipped Sine output)	10MHz~36MHz	
Operating Temperature	-10℃-60℃（Standard）	
Storage Temperature	-55℃~+125℃	
Frequency Stability	See Order Option	
Pulling Range	See Order Option	
Frequency Stability (Max):		
Vs Supply Voltage (±5%) change	±0.2ppm	
Vs Load (±10%) change	±0.2ppm	
Vs Aging(/year)	±1.0ppm	
Supply Voltage (±5%VDD)	5.0V	2.8V
Supply Current for TTL/CMOS out put (mA max):		
1.2500MHz≤F＜10.000MHz	10	7
10.000MHz≤F＜15.000MHz	15	10
15.000MHz≤F＜26.000MHz	20	15
26.000MHz≤F≤36.000MHz	25	20
Supply Current for Clipped Sine out put (mA max):		
10.000MHz≤F＜15.000MHz	1.5	
15.000MHz≤F＜26.000MHz	2.0	
26.000MHz≤F≤36.000MHz	2.5	
Output Level (TTL/CMOS output):		
High Level (“1”)	90%Vdd or 2.4V (min)	
Low Level (“0”)	10% Vdd or 0.4V (max)	
Duty	40%~60%	
Output Level (for Clipped Sine output)	0.8Vp-p	
Start Time	2mS max	
Vc input impedance	100KΩ min	
Phase Noise @ 13.0MHz：		
100Hz	-110 dBc/Hz	
1KHz	-130 dBc/Hz	
10KHz	-140 dBc/Hz	

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Frequency Stability vs Temperature Range

Stability (ppm) / Temper.(℃)	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm
A0 = 0~+50	○	○	○	○	○
A07= 0~+70	○	○	○	○	○
A1= -10~+60	○	○	○	○	○
A2= -20~+70	※	○	○	○	○
A3= -30~+75	※	※	○	○	○
A4=-40~+85	—	※	○	○	○

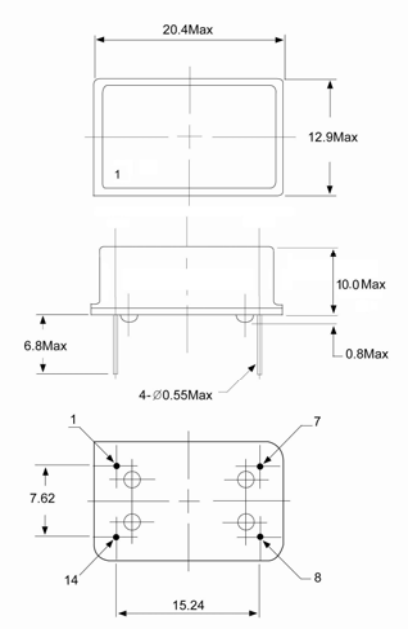
○：Available ※：Available case by case —：Not available

ORDER OPTIONS:

Type	Frequency (MHz)	Supply Voltage (V)	Pulling range (ppm)	Freq. Stability (ppm)	Operating Temp.(℃)	Output	Symmetry
TF VTF	XX.XXX	V5 =5.0±5%VDD V2 =2.8±5%VDD	±5 ±8 ±10 ±12 ±15 ±20 ±25 Blank = TCXO	±1.0 ±1.5 ±2.0 ±2.5 ±3.0 ±3.5 ±4.0 ±5.0	A0 = 0~55 A07= 0~+70 A1 = -10~+60 A2 = -20~+70 A3 = -30~+75 A4= -40~+85	T=TTL/CMOS CS=Clipped Sine Wave @10KΩ//10pF	S=50±5% Blank=50±10%

i.e.： TF-12.8V5-1.5/A07-T → TCXO, Dip-14, 12.8MHz, 5V, Freq. Stability=1.5ppm, 0~+70℃, TTL/CMOS, 50±10%
VTF-14.7456V2-20-1.5/A2-CS →VCTCXO, Dip-14, 14.7456MHz, 2.8V, Pulling range=20ppm,
Freq. Stability=1.5ppm, -20~+70℃, Clipped Sine Wave, 50±10%

OUTLINE DRAWING:



PIN	FUNCTION
# 1	Vcon / NC
# 7	GROUND
# 8	OUTPUT
# 14	VDD

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