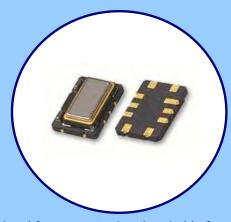




FEATURES

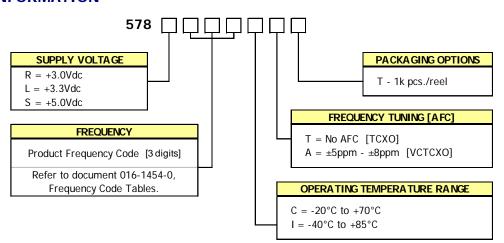
- Clipped Sine Output
- Optional Voltage Control for Frequency Tuning [VCTCXO]
- 7.0mmx5.0mm Surface Mount Package
- Frequency Range 5 52 MHz
- Fundamental Crystal Design
- Operating Voltage, +3.0Vdc, +3.3Vdc or +5.0Vdc
- Overall Frequency Stability ±4.6ppm
- Operating Temperature to -40°C to +85°C
- Tape & Reel Packaging Standard, EIA-418
- RoHS/Green Compliant [6/6]



APPLICATIONS

The Model 578, a quartz based analog TCXO with Clipped Sine output and optional frequency tuning, is suitable for applications requiring Stratum 3 performance such as base stations, Microcells, Femtocells, 1588 and Synchronous Ethernet timing, wireless communications, test and measurement.

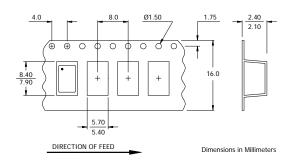
ORDERING INFORMATION

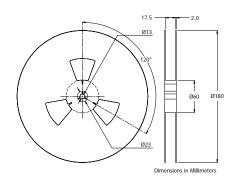


Not all performance combinations and frequencies may be available. Contact your local CTS Representative or CTS Customer Service for availability.

PACKAGING INFORMATION [reference]

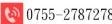
Device quantity is 1k pcs. maximum per 180mm reel.











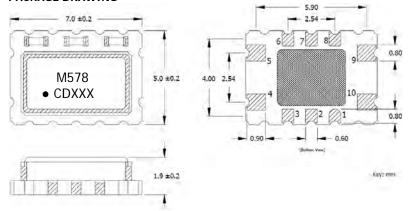




MODEL 578 STRATUM 3 TCXO/VC-TCXO - CLIPPED SINE

MECHANICAL SPECIFICATIONS

PACKAGE DRAWING



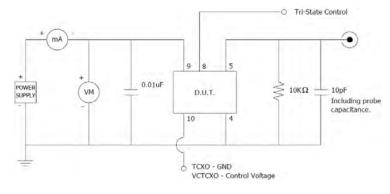
D.U.T. PIN ASSIGNMENTS

PIN	SYMBOL	DESCRIPTION						
4	GND	Circuit & Package Ground						
5	Output	Clipped Sine Wave Output						
8	EOH	Tri-State Enable						
9	V _{CC}	Supply Voltage						
10	Vc	Control Voltage – VCTCXO [Note 1] GND - TCXO						

NOTES

- 1. Connect to ground for TCXO [no AFC] option.
- 2. DC-Cut Capacitor Required. Add 1000pF capacitor between TCXO output and input of load.

TEST CIRCUIT - CLIPPED SINE LOAD



MARKING INFORMATION

- 1. M578 CTS Model Series.
- 2. − Pin 1 identifier.
- 3. C CTS identifier.4.
- 4. D Date code. See Table II for codes.
- 5. xxx Frequency Code.

Refer to document 016-1454-0, Frequency Code Tables.

NOTES

- 1. DO NOT make connections to non-labeled pins. Castellation pins may have internal connections used in the manufacturing process.
- Termination pads (e4); barrier plating is nickel [Ni] with gold [Au] flash plate.
- Reflow conditions per JEDEC J-STD-020, 260°C maximum.
- 4. MSL = 1.

SUGGESTED SOLDER PAD GEOMETRY

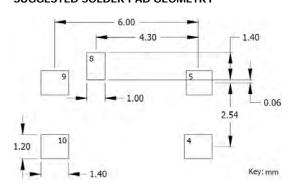


TABLE II - DATE CODE

	MONTH				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
	YEAR				JAN	FEB	IVIAK	AFK	IVIAT	JOIN	JUL	AUG	JLF	001	NOV	DEC
2001	2005	2009	2013	2017	Α	В	С	D	E	F	G	Н	J	K	L	М
2002	2006	2010	2014	2018	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2003	2007	2011	2015	2019	а	b	С	d	е	f	g	h	j	k	_	m
2004	2008	2012	2016	2020	n	р	q	r	S	t	u	V	W	Х	у	Z

