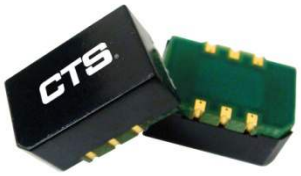
DFO S1
Miniature Surface Mount OCXO
9 x 14 mm, HCMOS

CTS Valpey Corporation

Features

- 10MHz to 50MHz frequency range
- HCMOS output
- Tight stability: ± 20 ppb



RoHS Status

Directive 2002/95/EC

Applications

- IP Timing
- Base Stations
- Femtocell
- LTE
- Network Timing and Synchronization

Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Frequency Range	F		10		50	MHz	Note 1
Frequency Stability	ΔF/F	vs. Operating Temperature -40°C to +85°C			±50	ppb	See "How to Order" chart
		vs. Supply Voltage			±20		
		vs. Load			±10		
		vs. Aging			±1	ppm	
		vs. Calibration @ +25°C			±1		
Operating Temperature	T		-40		+85	°C	See "How to Order" chart
Supply Voltage			3.135	3.3	3.465	%	
Power Supply		Warm-up Steady state, still air @ -40°C Steady state, still air @ +25°C		1.4 0.6 0.3	1.6	W	
Output Load		HCMOS 15 pF or 2 TTL					
Duty Cycle		@ 50% level	45/55		55/45	%	
Rise/Fall Times		10% to 90%			5	ns	
High Levels			2.8			V	Output Amplitude
Low Levels					0.3		
Warm-Up Time		@ +25°C to reach ± 100 ppb			3	min	

Note 1: Standard Frequencies 10, 12.8, 13, 19.2, 19.44, 20, 25, 26 & 38.88 MHz

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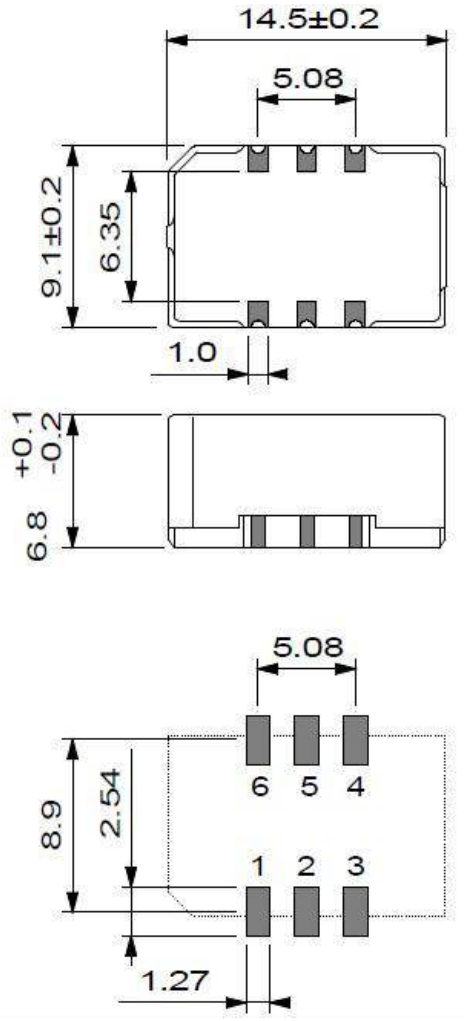

Pin #	Connection
1	NC or V Control
2	NC or Tri-state (E / D)
3	GND
4	Output
5	NC
6	V_{CC}

How to Order

DFO S1 — L | H | Z | 26 M | C | 28

Supply Voltage

Code	Specification
L	3.3V

Output Type

Code	Specification
H	HCMOS

Options

Code	Specification	
V	Voltage Control on Pin 1	Input Impedance
	≥ ± 5 ppm, ≤ ± 15 ppm for 1.65V ±1.35V; positive slope	≥ 100 kΩ
Z	Tri-state	

Frequency

Temperature Range

Code	Specification
C	-20 to 70°C
E	-40 to 85°C

Stability

Code	Specification
58	± 50 ppb
28	± 20 ppb
17	± 100 ppb