

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ECOC-2522 SMD OCXO



The ECOC-2522 is a SMD CMOS SC-Cut OCXO. The 25.4 x 22.0 x 12.2 mm SMD package is ideal for Cellular, Radar, Test & Measurement and IOT applications.

ECX-2520 SMD HCMOS TCXO



- SC Cut
- 25.4 x 22 mm Footprint
- Extended Temp Range
- RoHS Compliant

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

OPERATING CONDITIONS / ELECTRICAL CHARACTERIS					
PARAMETERS	CONDITIONS ECOC-2522			UNITS	
		MIN	TYP	MAX	
Frequency Range		2.000		100.000	MHz
	0 ~ +50°C (F Opt)			± 5.0	ppb
	-20 ~ +70°C (G Opt)			± 10.0	ppb
- 0. 1.11.	-40 ~ +75°C (H Opt)			±30.0	ppb
Frequency Stability	Supply Voltage ±5%			±20.0	ppb
	Warm-Up @+25°C (≤ 3 minutes)			±100.0	ppb
	Load Change (±10%)			±0.2	ppm
Power Consumption	At turn on		3.6	Watts	
Power Consumption	Steady State			1.4	Watts
Supply Voltage	3.3 Option	3.135	3.3	3.465	V
Supply Voltage	5.0 Option	4.75	5.0	5.25	V
	Daily (after 30 days)			±1.0	ppb
Aging	Yearly			±100	ppb
	10-Years			±500	ppb
Waveform		CI	MOS		
Output voltage Level	Vol:10%Vdd max./Voн:90%Vdd min.V DC				
Output Load			15		pF
Rise & Fall time	10%Vdd – 90%Vdd			5	ns
Duty Cycle	@ ½ Vdd			45/55	%
Waveform	Sinewave				
Peak Power		2.0			dBm
Output Load			50		Ω
Spurious Response				-70	dBc
Phase Noise	@ 10 MHz Carrier, Vdd 3.3V				
@ 1 Hz Offset				-90	dBc/Hz
@ 10 Hz Offset				-120	dBc/Hz
@ 100 Hz Offset				-135	dBc/Hz
@ 1,000 Hz Offset				-145	dBc/Hz
@ 10,000 Hz Offset				-150	dBc/Hz
@ 100 KHz Offset				-150	dBc/Hz
@ 1 MHz Offset				-150	dBc/Hz
Control Voltage Range	Positive Slope	0	Vdd/2	Vdd	V
Frequency Pull Range	-	±0.7			ppm
VC Port Impedance		10			kΩ
Storage Temperature		-40		+100	°C

Rev.2016

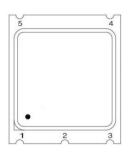




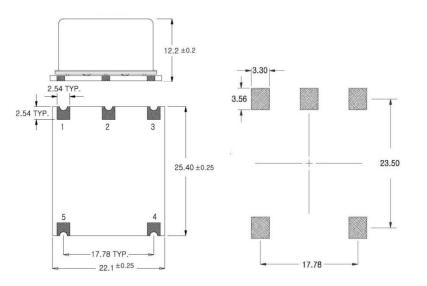
PART NUMBERING GUIDE: Example ECOC-2522-10.000-3-F-C

ECOC - SERIES	FREQUENCY	VOLTAGE	STABILITY /TEMP	OUTPUT
2522 25.4 x 22 mm OCXO	10.000 MHz	3 = +3.3V 5 = +5.0V	F = ±5 ppb 0 ~ +50°C G = ±10 ppb -20 ~ +70°C H = ±30 ppb -40 ~ +75°C	C = CMOS S = Sinewave

DIMENSIONS (mm)



PAD CONNECTIONS				
1	Voltage Control			
2	V Ref			
3	Supply Voltage			
4	Output			
5	Ground			



FREQUENCY MHz
10.000
12.800
13.000
16.384
20.000
38.400
38.800
40.000
100.000

SOLDER PROFILE
Peak solder Temp +260°C Max 10 sec Max.
2 Cycles Max.
MSL 1, Lead Finish Au

Figure 1) Top, Side, Bottom and suggested Land pattern.