TCXO5300S-26MHz-B-V

High performance SMD TCXO

Features and Benefits

26MHz low consumption CMOS output 3.3V power supply; 6.0mA maximum -135dBc/Hz @ 1KHz offset

Typical Applications

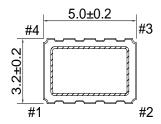
Mobile Radio GPS Reference Beidou Navigation Systems

Mechanical Drawing & Pin Connections

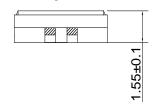
Drawing No:

MD140026-2





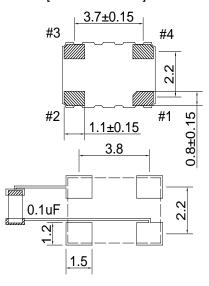
[SIDE VIEW]



PIN FUNCTIONS

Pin	Function				
#1	Control Voltage				
#2	GND				
#3	Output				
#4	Supply Voltage				

[BOTTOM VIEW]



Recommended soldering pattern

*To ensure optional oscillator performance place a by-pass capacitor of 0.1uF as close to the part as possible between Vdd and GND pads.

Unit: mm

1mm=0.039inch

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Specifications

	Oscillator	Sym	Condition		Value		Unit	Note
	Specification	Ţ	Condition	Min.	Тур.	Max.		11010
Nomina	Frequency	F _{nom}			26.000000		MHz	
	Output Waveform				CMOS	ı		
	Output High (Logic "1")			2.97		0.00	V	
	Output Low (Logic "0")					0.33	V	
Output	Output Load		M			15	pF	
	Duty Cycle		Measured at 50% VDD trigger level	45	50	55	%	
	Rise and Fall times		CMOS logic output at 10% to 90%			6.0	ms	
	Start Up Time					2.0	ms	
Power S								
Supply Voltage		V_{cc}		3.135	3.3	3.465	V	
Supply			At maximum supply voltage			6.0	mA	
	ncy Control*							
Control	Voltage Range	V_c		0.5	1.5	2.5	V	
Pulling Range			Reference to VCON at 1.5V	+/-5.0			ppm	
Vcon Input Impedance			Measured between VCON and GND pin	100			KOhm	
Linearity	У					10	%	
Freque	ncy Stability							
VS. Ten	nperature		From -40°C to +85°C Ref to 25°C			±0.28	ppm	
Nomina	l Frequency Tolerance		Frequency @25°C, 1hour after 2 times reflow.			±2.0	ppm	
VS. Sup	pply Voltage		+/-5%change @25°C			±0.3	ppm	
Load Sensitivity			+-10% load change			±0.2	ppm	
Aging			First year			±1.0	ppm	
Phase noise (typ.)			10Hz		-90		dBc/Hz	
			100Hz		-115		dBc/Hz	
	noise (typ.)		1KHz		-135		dBc/Hz	
		10KHz		-152		dBc/Hz		
			100KHz		-155		dBc/Hz	
	nmental Conditions							
Parame		Reference Std.			Test Condition			
	ng temperature range	-40°C to +85°C						
Storage	temperature range	-55°C to +125°C						
Mechan	ical Shock	MIL-STD-883 2002 Condition B JESD22-B104 Condition B			1500G, half-sine, 0.5ms, each axis for 3 times			
Vibratio	n	MIL-STD-883 2007 Condition A JESD22-B103 Condition 1			10-2000Hz, 1.52mm, 20G, each axis for 4hrs			
Therma	l Shock	MIL-STD-883 1010 Condition B JESD22-A104 Condition B			-55°C, 125°C; soak time is 10 mins, with total 200 cycles.			

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