Features and Benefits

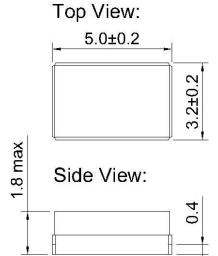
Better than +/- 1 ppm from -40°C to +85°C 10MHz HCMOS output 5.0 x 3.0mm SMD package

Typical Applications

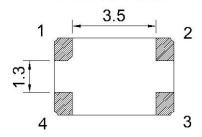
Mobile Radio GPS Reference Beidou Navigation Systems

Mechanical Drawing & Pin Connections

Drawing No: MD150006-1



Bottom View:



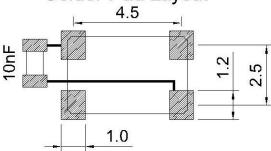
Low profile option: 1.4mm max height

Pad Connections:

1	Voltage Control / NC
2	GND
3	Output
4	+Vs

Unit: mm

Solder Pad Layout



Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification			Min.	Тур.	Max.	Onit	Note
Nominal Frequency	F _{nom}			10.000000		MHz	
Output Wave Form				HCMOS			
Output level "1"			90% Vs	3			
Output level "0"					10 Vs		
Rise and Fall time					8	ns	
Duty Cycle			45	55		%	
Output Load					15	pF	
Power Supply							
Supply Voltage	V_{cc}		2.97	3.3	3.63	V	
Supply Current				2.0		mA	
Frequency Control		·					
Control Voltage			0.5	1.5	2.5	V	
Pulling Range			+/-5	- 119		ppm	
Linearity					2	%	
Slope				Positive			
Input Resistance			100			Kohm	
Modulation bandwidth			2			KHz	
Frequency Stability							
VS. Temperature		-40°C to +85°C			+/-1	ppm	
VS. Supply Voltage		Supply voltage varied +/-5% at 25°C		+/-0.1		ppm	
VS. Load Change		+/-5pF load change		+/-0.2		ppm	
First Year Aging		First year at 25°C			+/-1	ppm	
<u> </u>		10 Hz		-85			
000 01		100 Hz		-118		dBc/Hz	
SSB Phase noise (typ.)		1 KHz		-135			
		10 KHz		-143			
		100KHz		-145		1	
Environmental Conditions							
Parameter	<u> </u>						
Operating temperature range							
Storage temperature range -55°C to +125°C							
Shock	IEC 60	068-2-27		1500G,acceleration for 0.5ms, 3 shocks in each of 3 mutually perpendicular planes			
Vibration		10Hz – 60Hz 1.5mm displacement, 60-2000Hz at 20G, 4hours in each of three mutually perpendicular.					