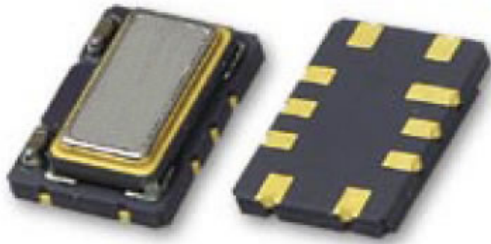


Picture of Part



Electrical Specifications

FREQUENCY CHARACTERISTICS

	Parameter	Min.	Typ.	Max.	Units	Test Condition
1-1	Nominal Frequency		26.000000		MHz	
1-2	Nominal Frequency Tolerance	-1.5		+1.5	ppm	Frequency at 25°C, 1 hour after reflow
1-3	Frequency stability over temperature	-0.2		+0.2	ppm	Referenced to (Fmax. +Fmin.) / 2
1-4	Temperature range	-10		60	°C	The operating temperature range over which the frequency stability is measured
1-5	Supply voltage stability	-0.2		+0.2	ppm	Supply voltage varied ±5% at 25°C
1-6	Load sensitivity	-0.2		+0.2	ppm	±10% load change
1-7	Aging	-1.0		+1.0	ppm	Per year at 25°C

POWER SUPPLY

	Parameter	Min.	Typ.	Max.	Units	Test Condition
2-1	Supply voltage	3.13	3.3	3.47	V	
2-2	Supply current			3.5	mA	At maximum supply voltage

CONTROL VOLTAGE

	Parameter	Min.	Typ.	Max.	Units	Test Condition
3-1	Control voltage range	0.5	1.5	2.5	V	
3-2	Pulling range	±5.0			ppm	Referenced to Vcon at 1.5V
3-3	Vcon input impedance	100			kOhm	Measured between VCON and GND pin
3-4	Linearity			10.0	%	

OSCILLATOR OUTPUT

Parameter	Min.	Typ.	Max.	Units	Test Condition
4-1 Output waveform	Clipped sine wave				DC Coupled clipped sine wave
4-2 Output voltage level	0.8			Vp-p	
4-3 Output load	10Kohm // 10pF				
4-4 Start time			2.0	ms	
4-5 Tri-State	Output Active	2.31		V	
	Output in High-Impedance		0.99	V	

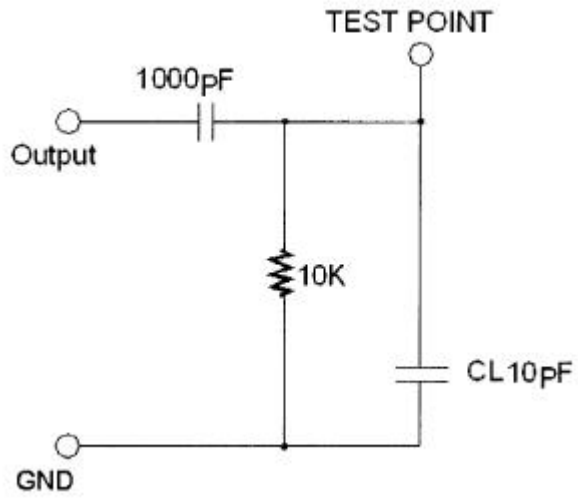
PHASE NOISE

Parameter	Min.	Typ.	Max.	Units	Test Condition
5-1 10 Hz offset		-88		dBc/Hz	
5-2 100 Hz offset		-114		dBc/Hz	
5-3 1 KHz offset		-135		dBc/Hz	
5-4 10 KHz offset		-151		dBc/Hz	
5-5 100 KHz offset		-155		dBc/Hz	

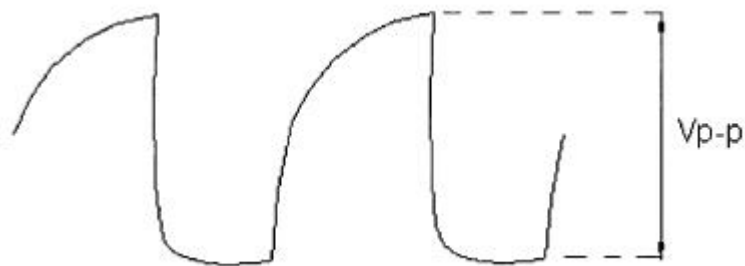
ENVIRONMENTAL

Parameter	Reference Std.	Test Conditions
6-1 Vibration Test	MIL-STD-883 2007 Condition A JESD22-B103 Condition 1	10~2000Hz, 1.52mm, 20G, each axis for 4 hrs
6-2 Thermal Shock	MIL-STD-883 1010 Condition B JESD22-A104 Condition B	-55°C, 125°C; soak time is 10 mins, with total 200 cycles
6-3 Mechanical Shock	MIL-STD-883 2002 Condition B JESD22-B104 Condition B	1500G, half-sine, 0.5ms, each axis for 3 times.
6-4 Storage temperature		-40°C to +85°C

Test Circuit



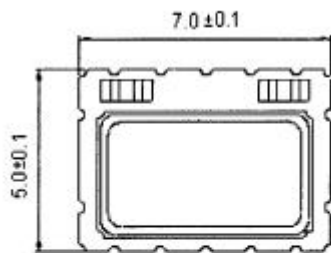
Output Waveform



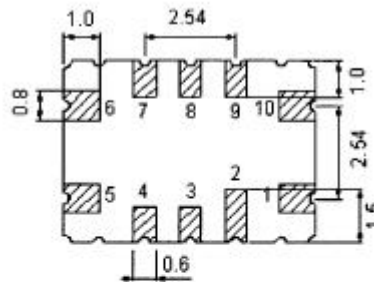
Dimensions and PIN Connection

Unit: mm

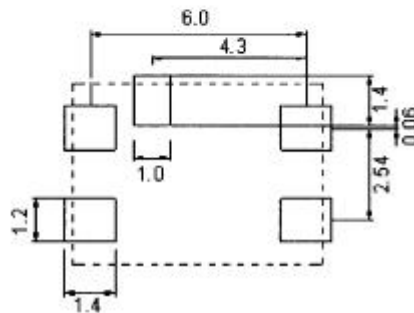
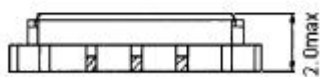
[TOP VIEW]



[BOTTOM VIEW]



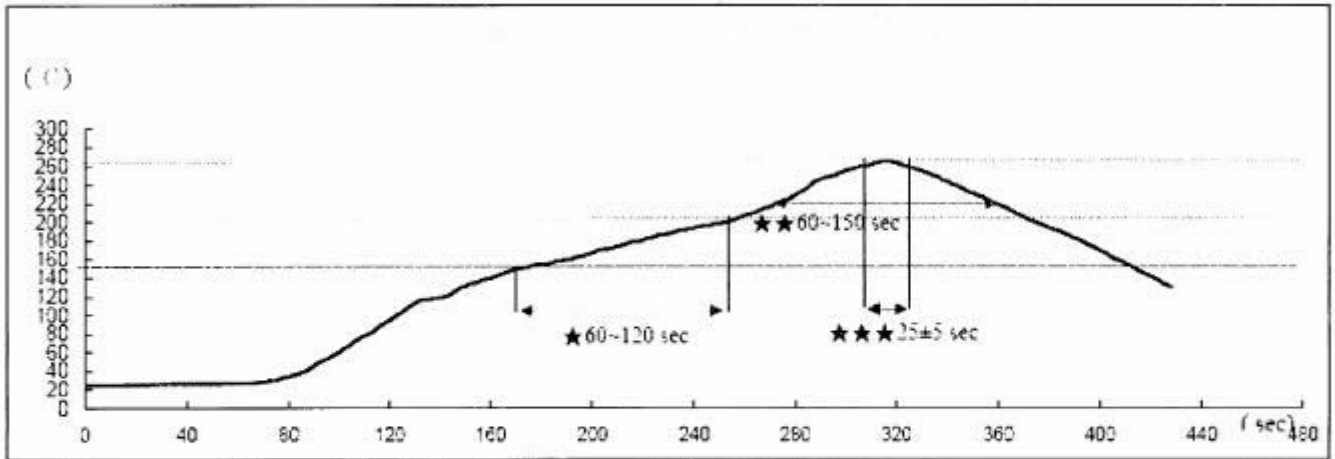
[SIDE VIEW]



Recommended Soldering Pattern

Pin	Function	Pin	Function
#1	VCON	#6	Output
#2	NC	#7	NC
#3	NC	#8	NC
#4	NC	#9	Tri-State Control
#5	GND	#10	V _{DD}

Recommended IR Reflow Profile



Reference Standard: JEDEC-STD 020

Test conditions: ★ Pre-heating : 150°C to 200°C, 60~120secs.

★★ Heating : 217°C, 60~150sec.

★★★ Peak temperature : 260±5°C, 25±5sec.