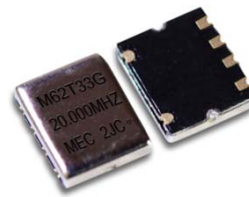


**SMD LVCMOS output**  
**11.4 x 9.6 x 2.6 mm**



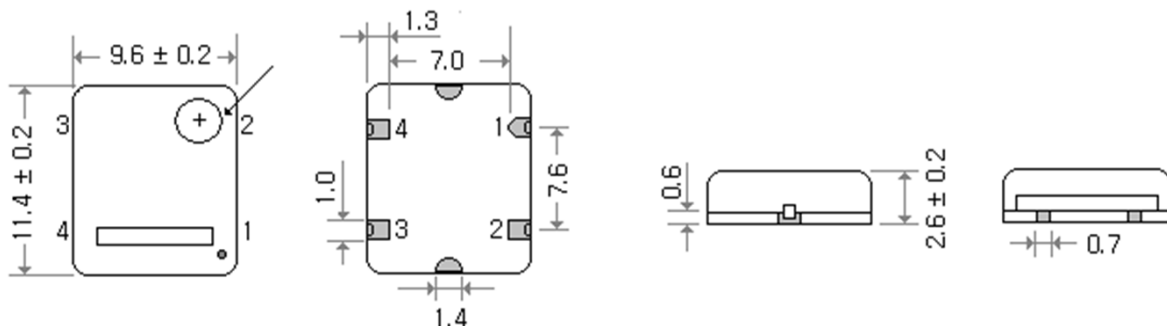
**Features**

- Custom frequencies can easily be configured .
- Quick Turn , Short Lead time . From 1 day to 2 week .
- Low phase noise : -114 dbc / Hz at 1KHz offset ( 133.0 MHz ) .

**General Specifications**

Parameters		Electrical Spec.						
Input Voltage ( V <sub>DD</sub> )		3.3 V ± 5 %						
Frequency Range		1.0 MHz ~ 200.0 MHz						
Output Wave Form		LVCMOS output						
Initial Calibration Tolerance		Models without mechanical trimmer : < ± 2.0 ppm at +25°C ±2°C.						
Frequency Stability ( ppm )		± 0.5 ppm	± 1.0 ppm	± 1.5 ppm	± 2.0 ppm	± 2.5 ppm	± 3.0 ppm	± 5.0 ppm
Frequency Stability vs Temperature	0°C to 50°C	○	○	○	○	○	○	○
	-10°C to 60°C	△	○	○	○	○	○	○
	-20°C to 70°C	X	○	○	○	○	○	○
	-30°C to 75°C	X	○	○	○	○	○	○
	-40°C to 85°C	X	X	○	○	○	○	○
○ : available △ : please contact us X : not available								
Frequency Stability	vs Aging	± 1.0 ppm / year max. at 25°C						
	vs Voltage Change	± 0.3 ppm max. , for a ±5% input voltage change .						
	vs Load Change	± 0.3 ppm max. , for a ±10% load condition change .						
	vs Reflow ( SMD type )	± 1.0 ppm max. , 1 reflow and measured 24 hours afterwards .						
Current Consumption ( max. )		8.0 mA ( max. ) [ 25.0 MHz ]		20.0 mA ( max. ) [ 200.0 MHz ]				
Output Logic Levels	Logic High " 1 "	90% of V <sub>DD</sub> min.						
	Logic Low " 0 "	10% of V <sub>DD</sub> max.						
Output Load		15 pF						
Start - Up Time ( Ts )		5.0 m sec. ( typ. ) , 10.0 m sec. ( max. )						
Output Format		DC block , AC coupled						
Rise Time ( Tr ) / Fall Time ( Tf )		10 n sec.(max.)						
Duty Cycle		Standard: 50 % ± 10 % ; Option: 50 % ± 5 % ; Measured at 50% V <sub>DD</sub> .						
Storage Temperature		- 50°C to 100°C						
Aging		± 3 ppm per year (max.)						
Phase Noise ( typical ) [ 10.000 MHz ]		Offset dBc / Hz	10 Hz	100 Hz	1K Hz	10 KHz	100KHz	
			-76	-102	-114	-110	-100	

**Outline Dimensions ( Unit : mm )**



Pad Connections :

Pad 1 : No connection for TCXO ; Voltage control for VCTCXO

Pad 2 : Ground

Pad 3 : Output

Pad 4 : Supply Voltage

Mercury [www.mercury-crystal.com](http://www.mercury-crystal.com)