



### Features and Benefits

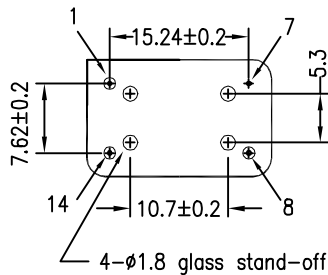
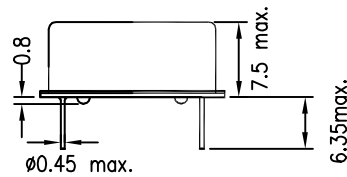
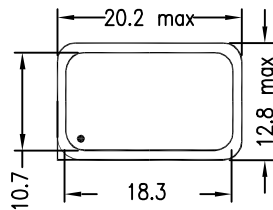
Frequency stability (up to  $\pm 0.5$ ppm over  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ )  
HCMOS Output  
3.3V supply voltage  
Operating temperature range:  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$

### Typical Applications

5G Repeater  
Link and micro cells  
Low noise microwave

### Mechanical Drawing & Pin Connections

Drawing No: MD190004-1



### Pin Connections

Pin 1: Voltage Control  
Pin 7: Ground  
Pin 8: Output  
Pin 14: Supply Voltage

Unit in mm

1mm = 0.0394 inches



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	f <sub>0</sub>			40.92MHz		MHz	
<b>RF Output</b>							
HCMOS	Load			15		pF	
	High Level Voltage	V <sub>H</sub>		3.0		V	
	Low Level Voltage	V <sub>L</sub>			0.3	V	
	Duty Cycle		±10%,measure at 50% VDD		50		%
	Rise/Fall Time		20%<-->80% of waveform			10	ns
<b>Power Supply</b>							
Voltage	V <sub>cc</sub>			3.3		V	
Current				25		mA	
<b>Frequency Control</b>							
Control Voltage Range	V <sub>c</sub>		0	1.5	3	V	
Tuning Range			±2			ppm	
Linearity					10	%	
<b>Frequency Stability</b>							
Initial Tolerance		+25°C		±3.0		ppm	
Versus Temperature		ref 25°C, from -20 to +70°C			±0.5	ppm	
Versus Supply Voltage		+5% change			±0.3	ppm	
Versus Load		+10% change			±0.3	ppm	
Aging	First Year	+25°C			±1.0	ppm	
Phase Noise		1 KHz		-135		dBc/Hz	
<b>Environmental Conditions</b>							
Operating temperature range		-20°C to +70°C					
Storage temperature range		-40°C to +85 °C					