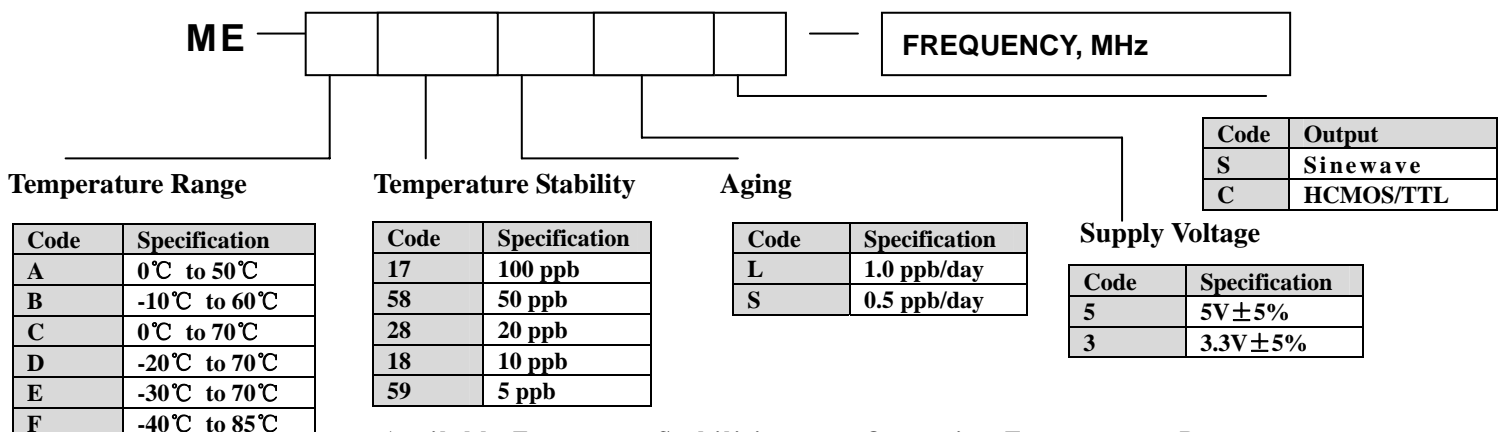


## Specifications:

Parameter	Symb	Condition	Min	Typ	Max	Unit	Note	
<i>Absolute Maximum Ratings</i>								
Input Break Down Voltage	V <sub>cc</sub>		-0.5		7.0	V		
Storage Temp.	T <sub>s</sub>		-40		85	°C		
<i>Electrical</i>								
Frequency	F		4.8		180	MHz	All parameters for 10 MHz	
Frequency stability	ΔF/F	vs. Temp.		±10		ppb		
		vs. Supply		1		ppb		
Aging		per day		5x10 <sup>-10</sup>				after 30 days
		per year		1x10 <sup>-7</sup>				
Allan Variance		.1s to 10s		1x10 <sup>-11</sup>				
SSB Phase Noise		10 Hz		-125		dBc/Hz		At higher frequencies, deteriorates by 20LogN dB
		100 Hz		-145				
		10 KHz		-165				
Retrace		After 30 minutes		±1	±20	ppb		
G-sensitivity		worst direction			±1.0	ppb/G		
Input Voltage	V <sub>cc</sub>		4.75	5.0	5.25	V	3.3V optional	
Supply Current	I <sub>cc</sub>	Steady state, 25°C Steady state, -30°C Start-up		25/35 70/100 100/150	35/45	mA	5V/3.3V	
Power consumption	P	steady state, 25°C		125/115	175/149	mW	5.0V/3.3V	
Load/Output Waveform	10KOhm/15pF(HCMOS/TTL), 50Ohm(Sinewave)							
Warm-up time	t	to 0.1 ppm accuracy		35/40		Seconds	5.0V/3.3V	
Control voltage	V <sub>c</sub>		0		4.0	V	To 2.8V at V <sub>cc</sub> =3.3V	
Pull range		from nominal F	±0.5	±1		ppm		
Deviation slope		Monotonic, posit		0.4		ppm/V		
Setability	V <sub>c0</sub>	@25°C, F <sub>nom</sub> .	1.0	2.0	3.0	V	5V/3.3 supply	

## How to Order



### Available Frequency Stabilities over Operating Temperature Ranges

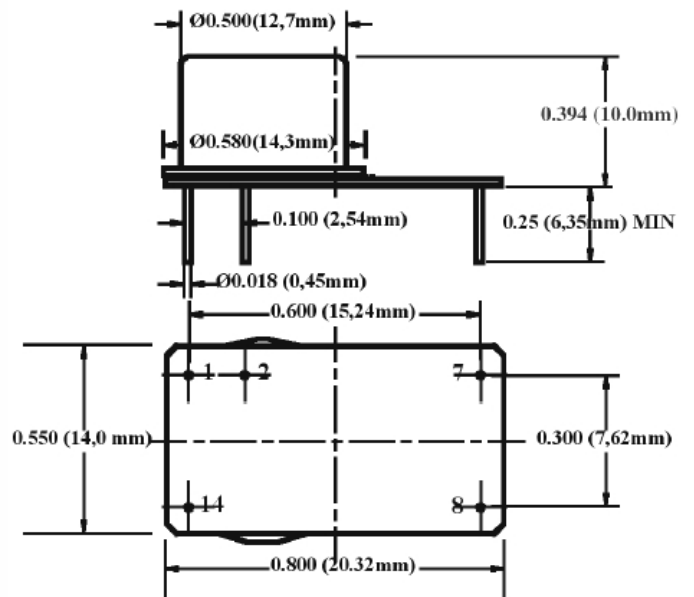
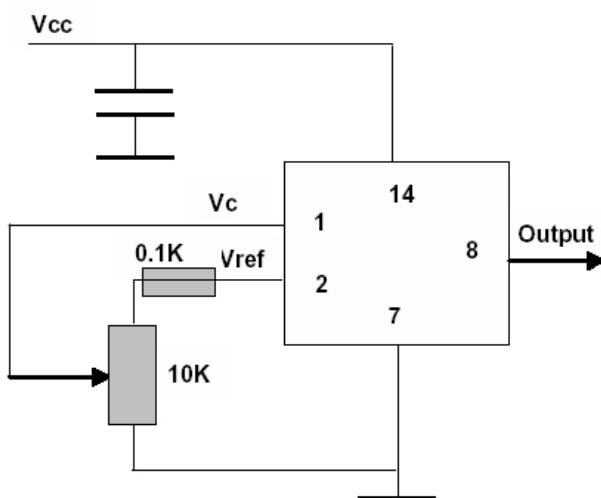
Code	Temperature Range	50 ppb	20 ppb	10 ppb	5 ppb
A	0°C to 50°C	*	*	*	*
B	-10°C to 60°C	*	*	*	
D	-20°C to 70°C	*	*		
G	-40°C to 85°C	*			

## Features

- Oven Controlled Crystal Oscillator (OCXO)
- SC-Cut Crystal
- HCMOS/TTL or Sinewave out put
- 3.3Vdc supply voltage, 5Vdc optional
- Stability to +/- 5ppb
- Compact DIL-14 package (20.32 × 14.0 × 10.0mm)
- 30 Second Warm-up Time
- QPL certified MIL-PRF-55310D, class B



Environmental And Mechanical	
Mechanical Shock	Per MIL-STD-883 ,Method 2002 ,Cond.B
Thermal Shock	Per MIL-STD-883 ,Method 1011 ,Cond.A
Vibration	Per MIL-STD-883 ,Method 2007 ,Cond.A
Seal	Per MIL-STD-883, Method 1014, Condition B & C
Solderability	Per MIL-STD-883 ,Method 2003 ,Cond.A



Outline Drawing

PIN #	Connection
1	Vc
2	Vref
7	GND
8	Output
14	Vcc

### MMDC-Tech Science Inc.

6050 W Eastwood Ave, Chicago IL60630, USA

TEL: (310) 233-2157 FAX: (310) 233-2162