



B1144A OSCILLATOR SERIES

TIGHT STABILITY HCMOS/TTL OUTPUT



Features:

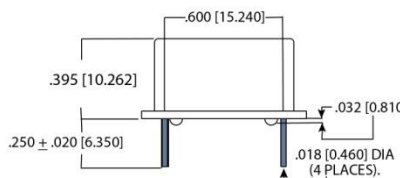
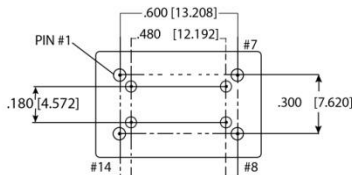
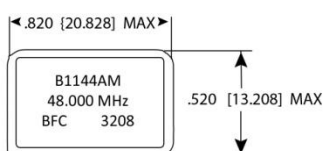
- 25.0 to 50.0 MHz Frequency Range (B1144AC/E)
- 35.1 to 66.0 MHz Frequency Range (B1144AM)
- ± 25 ppm Stability
- TTL Compatible Output (B1144AM, AMT)
- CMOS Compatible (B1144AC/E and B1144AD/E)
- Tighter Stabilities Available Upon Request

ELECTRICAL SPECIFICATIONS				
Model	B1144AM	B1144AMT	B1144AC/E	B1144AD/E
Frequency Range (MHz)	35.1 to 66.0MHz		39.0 to 40.0MHz 44.736MHz 48.0 to 50.0MHz	25.0 to 26.0MHz 34.0 to 37.2MHz 44.736MHz 48.0 to 50.0MHz
Output	TTL ; Up to 10TTL Gates		HCMOS; Up to 15pF	
Frequency Stability (ppm)	Inclusive of Shock, Vibration, Calibration, Temperature, Voltage, Load, Aging ± 25 ppm (Tighter Stabilities Available Upon Request)			
Temperature Range (°C)	Operating	0° to +70°C		
	Storage	-55°C to +125°C		
Supply Voltage (V)	5Vdc $\pm 5\%$			
Input Current (mA)	@ 25°C	50 max.		
	Over Temp	60 max.		
Current with Output Shorted (1 sec. max.)	-18mA min., -100mA max			
Symmetry	60/40%			
T _R and T _F (ns)	TTL: 0.5V to 2.5V dc		CMOS: 20% to 80% Vcc	
"0" Level (V _{OL})	+ 0.5V max.			
"1" Level (V _{OH})	Vcc - 0.5V dc			
"0" Sink Current	16 mA min.			
"1" Source Current	-500 μ A min.			
High or Low Level Output Current (mA)	± 20 absolute max. value			
Output Voltage	-0.5V to Vcc +0.5V			

TYPICAL FREQUENCY STABILITY ALLOCATION (Use this chart for ordering)

MODEL CHARACTERISTICS	MODEL B1144AM	MODEL B1144AMT	MODEL B1144AC/E	MODEL B1144AD/E
Calibration	± 5 ppm	± 5 ppm	± 5 ppm	± 5 ppm
Vs. Temperature	± 14 ppm	± 7 ppm	± 11 ppm	± 8 ppm
Vs. Voltage	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
Vs. Load	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
Vs. Shock	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
Vs. Vibration	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm
Vs. Aging	± 2 ppm	± 2 ppm	± 2 ppm	± 2 ppm

B1144AM Series Package



PIN	Function
1	NC
7	Gnd
8	Output
14	+Vcc