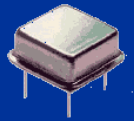


# B500 SERIES

## HCMOS/TTL CLOCK OSCILLATOR

### DIL-8 THRU-HOLE PACKAGE



#### Features:

- 250 kHz to 800 MHz Frequency Range
- $\pm 10\text{ppm}$  to  $\pm 100\text{ppm}$  Stability
- DIL-8 Hermetically sealed Thru Hole Package
- **RoHS Compliant**
- HCMOS/TTL Output
- 24 to 72 Hour Manufacturing Option Available
- SMD Gull Wing Lead Forming Available
- Tri- State Output Available

ELECTRICAL SPECIFICATIONS							
Output Logic	TTL		HCMOS		HCMOS/TTL		
Output Load	10TTL Gates		15pF		15pF; 10TTL Gates		
Frequency Range	500kHz to 180MHz.						
Frequency Stability (Overall)	$\pm 10\text{ppm}$	$\pm 15\text{ppm}$	$\pm 20\text{ppm}$	$\pm 25\text{ppm}$	$\pm 50\text{ppm}$	$\pm 100\text{ppm}$	
Operating Temperature Range	0 to 50°C	Available	Available	Available	Available	Available	Available
	0 to 70°C	Contact Us	Contact Us	Available	Available	Available	Available
	-10 to 70°C	Contact Us	Contact Us	Contact Us	Available	Available	Available
	-20 to 70°C	Contact Us	Contact Us	Contact Us	Available	Available	Available
	-40 to 85°C	Contact Us	Contact Us	Contact Us	Contact Us	Available	Available
Storage Temperature	-55 to 125°C						
Supply Voltage	3.3Vdc $\pm 5\%$ or 5Vdc $\pm 5\%$						
Supply Current	20mA Max @ 20MHz						
Symmetry	60/40% or 55/45%						
Rise and Fall Time	10 ns Max (std.) 6 nS						
Start-up Time	10 ms Max.						
Enable Time	100ns Maximum						
Aging at 25°C	$\pm 5.0\text{ ppm Max. / Year (Std.)}$ , $\pm 3.0\text{ ppm Max. / Year}$						
SSB Phase Noise	Offset	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
	3.3V @ 40MHz	80 dBc/Hz	115 dBc/Hz	140 dBc/Hz	150 dBc/Hz	155 dBc/Hz	

Part Number Table							
Model	Frequency Stability	Logic	Symmetry	Tristate	Operating Temperature(°C)	Voltage	Freq.
B5	10 = 10 ppm	T=TTL	Blank=60/40%	Blank=No Tristate	Blank = 0 to 70°C	Blank = 5V	
	15 = 15 ppm	C=HCMOS	S = 55/45%	E=Enable PIN # 1	B = 0 to 50°C	3 = 3.3V	
	20 = 20 ppm	CT=HCMOS/TTL	ST=52.5/47.5%		D = -20 to 70°C		
	25 = 25 ppm				E = -30 to 75°C		
	50 = 50 ppm				F = -40 to 80°C		
	00 = 100 ppm				H = -10 to 70°C		
					M = -40 to 85°C		

Part Number Example							
B5	00	T	S	E	M	3	27.0

