

# BSM615 SERIES

## HCMOS/TTL OSCILLATOR

### SMD PLASTIC J-LEAD PACKAGE



- Plastic J-Leaded Package
- HCMOS / TTL Compatible Output
- Tri-State Feature Standard
- Tape & Reel Packaging Available
- RoHS Compliant (Pb Free)
- Drop In Replacement For Epson SG615 Series Oscillators
- 1.0 MHz to 125.0 MHz Frequency Range
- -40°C to +85°C Temperature Range Available (Suffix "M")
- Low Phase Jitter with Fundamental or 3<sup>rd</sup> Overtone Crystal Design
- 5.0 or 3.3 Volt DC Supply Voltage

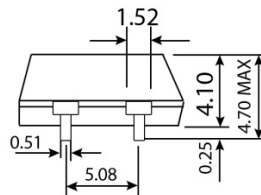
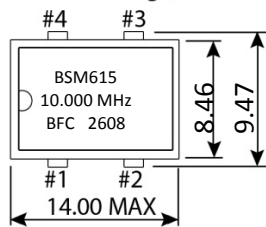
ELECTRICAL SPECIFICATIONS			
Logic	TTL	HCMOS	TTL / HCMOS
Frequency Range	1.0 to 125.0 MHz		
Frequency Stability (Overall)	± 100ppm (Standard), ± 50 ppm (Suffix "C")		
Operating Temperature Range	0 to 70°C (Standard), -40 to 85°C(Suffix"M")		
Storage Temperature	-55 to 125°C		
Input Voltage (Vcc)	5.0V ± 0.5V (Standard) / 3.3V ± 0.3V( Suffix"3")		
Input Current for 5.0V Model	1.5 MHz to 10.0 MHz	10mA Max	
	10.1 MHz to 26.0 MHz	15mA Max	
	26.1 MHz to 50.0 MHz	35mA Max	
	50.1 MHz to 125.0 MHz	50mA Max	
Input Current for 3.3V Model	1.0 MHz to 26.9 MHz	10mA Max	
	27.0 MHz to 49.9MHz	20mA Max	
	50.0 MHz to 125.0 MHz	35mA Max	
Symmetry	@ 50% Vcc: HCMOS, @ 1.4 Vdc TTL	60/40%, 55/45%	
Rise & Fall Time	10 nS Max. (std.) 6 nS		
Output Load	5 TTL (Std.)	15 pF (Std)	5 TTL / 15 pF (Std)
Aging at 25°C	±5ppm max and ±3ppm typical		

Part Number Table					
Model	Symmetry	Frequency Stability	Operating Temp. (°C)	Voltage	Frequency
BSM615	Blank = 60/40%	Blank = 100ppm	Blank = 0 to 70°C	Blank = 5V	In MHz
	"S" = 55/45%	"C" = 50ppm	"M" = -40 to 85°C	3 = 3V	

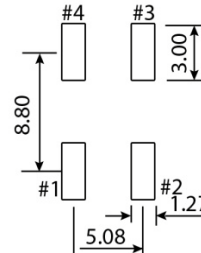
Part Number Example					
Model	Symmetry	Stability	Operating Temp.	Voltage	Frequency
BSM615	S	C	M	3	10.000 MHz

Above is Plastic J Package Leads 55/45% Symmetry, 50ppm stability, -40 to 85°C Temp Range, 3.3VDC, @ 10.0MHz

Mechanical Drawing (Dimensions in mm)



Recommended Solder Pad Layout



Pin	Connection
1	Tri-State
2	Ground
3	Output
4	Vcc

Dimensions in Millimeters