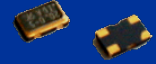


BSM32x SERIES

HCMOS CLOCK OSCILLATOR

3.2 x 2.5 x 1.1 mm SMD CERAMIC PACKAGE



Features:

- RoHS Compliant (Pb-Free)
- HCMOS/TTL Output
- Tri-state Enable / Disable Standard
- 5V, 3.3V, 2.5V options
- Very low Phase Jitter with Fundamental or 3rd Overtone Crystal Design
- Leadless Chip Carrier (LCC) Ultra Small Package (3.2 x 2.5 x 1.1 mm)
- 1.8432 to 50.000 MHz Frequency Range
- Extended Temperature Range (-40°C to 85°C) Available

ELECTRICAL SPECIFICATIONS			
Model	BSM322	BSM323	BSM325
Supply Voltage	2.5VDC ±10%	3.3VDC ±10%	5.0VDC ±10%
Input Current	8mA Maximum	12 mA Maximum	20 mA Maximum
Nominal Frequency	1.8432 to 50.000 MHz		
Storage Temperature Range	-55°C to 125°C		
Frequency Stability	± 100 ppm, ± 50 ppm, ± 25 ppm		
Operating Temperature Range	0°C to 70°C, -20°C to 70°C, -40°C to 85°C		
Rise & Fall Time	10 nS Maximum , depending on frequency and output load		
"0" Level (logic "0")	0.1 Vcc Maximum		
"1" Level (logic "1")	0.9 Vcc Minimum		
Symmetry	60 / 40% Max (1/2 Vcc)		
Output Wave Form	HCMOS - Compatible		
Output Load	HCMOS: 15 pF load		
Start-up time	10 ms Maximum		
Phase Jitter (RMS, 1 Sigma)	1 ps Max for fj > 1kHz; 0.3 ps Typical for fj = 12 KHz to 20 MHz		
Tristate Function	Input (Pin 1) High (> 0.7Vcc, or 2.2V if Vcc=5V) or open; Output (Pin 3 active)		
	Input (Pin 1) Low (< 0.3Vcc, or 0.8V in Vcc=5V): Output disabled in high impedance		
Output Disabled Time	100 ns Maximum		
Output Enable Time	100 ns Maximum		

Part Number Table					
Model	Voltage	Symmetry	Frequency Stability	Operating Temp. Range	Frequency
BSM32	5 = 5V	22 = 60/40%	B = ± 100ppm	Blank = 0°C to 70°C	In MHz
	3 = 3.3V	21 = 55/45%	C = ± 50ppm	M = -40°C to 85°C	
	2 = 2.5V		E = ± 25ppm	D = -20°C to 70°C	

OUTLINE DRAWING

