



**BROOKDALE
FREQUENCY
CONTROLS
INC.**

Bsm997 Series

Rev 2.0



Features:

- Miniature (5mmx7mm) Package
- TTL-CMOS- Compatible Output
- Tri-State Feature For Auto Test Systems
- Tape & Reel Packaging
- 1.5 MHz to 125.0 MHz Frequency Range
- 24 to 72 Hour Manufacturing Option Available
- **RoHS Compliant**

Miniature surface mount ceramic clock oscillator

Part Number Table

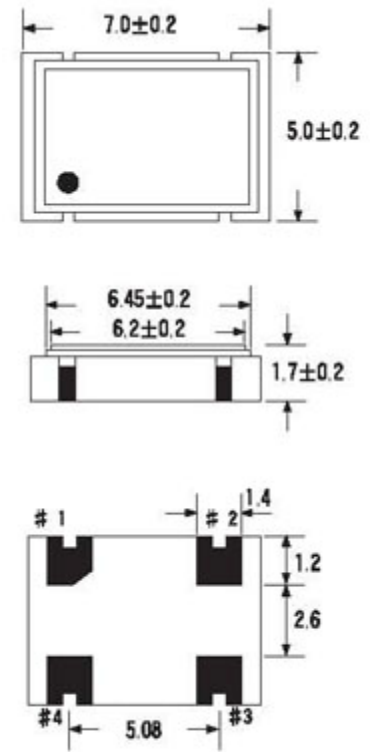
Model	Symmetry	Frequency Stability	Operating Temp. (°C)	Packaging
BSM997	22 = 60/40%	B = 100ppm	2 = 0 to 70°C	A= Bulk
	21 = 55/45%	C = 50ppm	3 = -20 to 70°C	E= Tape N Reel
		D = 30ppm	5 = -40 to 80°C	
		E = 25ppm	7 = -10 to 70°C	

Part Number Example Table

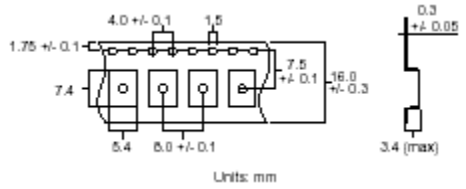
Model	Symetr	Stability	Operating Temp.	Voltage	Frequency
BSM997	22	E	7	E	27.000 MHz

Electrical Specifications			
Parameter	Min	Typical	Max
Center Frequency	1.5		125
Operating Temperature Range	0		+70°C
	-40°C		+85°C
Frequency Stability(ppm)	See Chart Below		
Supply Voltage (V)	3	3.3	3.6
Supply Current (mA)			
1.5 MHz To 20 MHz			20
>20 MHz			40
Output Levels			
Output High	3		
Output Low			0.3
Transistion Times**			
Rise Time (Tr)			5
Fall Time (Tf)			5
Output Symmetry (%)	60/40%	45/55%	49/51%
Fan Out			15pF
Storage Temperature	-40°C		+125°C
Tri-State (input to pin 1)			
Output Active	2		
Output in High-Impedance State			0.5

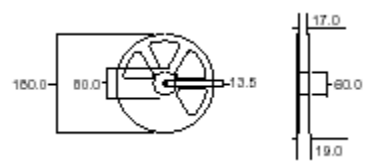
Mechanical Specifications	
Pad Connection Table	
Pad #	Pad Connection
# 1	N/C or Enable
# 2	Ground
# 3	Output
# 4	Vcc



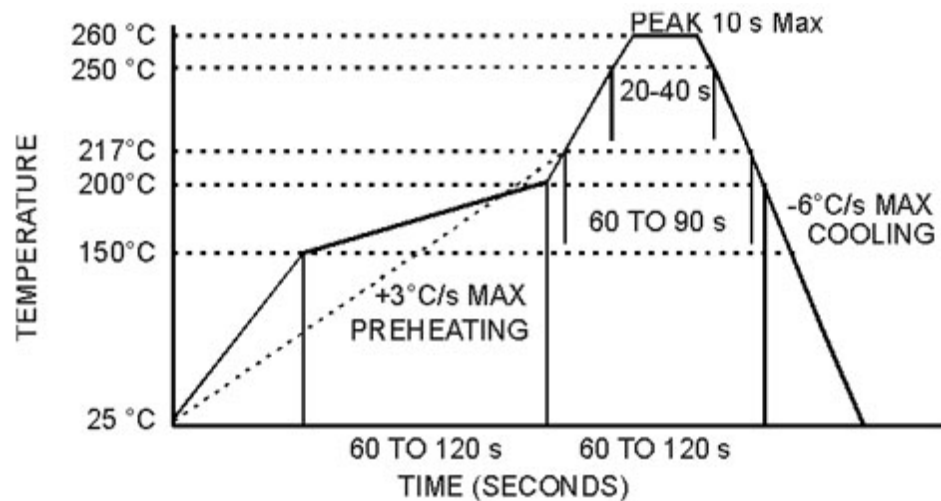
Tape Dimensions



Reel Dimensions (500pcs/ Reel Std)



Solder Reflow Profile



Note: All the through hole devices can withstand 260°C soldering by terminals only (ie wave solder or hand soldering process)



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