



**BROOKDALE  
FREQUENCY  
CONTROLS  
INC.**

#### Features:

- Miniature (5mmx7mm) Package
- TTL-CMOS- Compatible Output
- Tri-State Feature For Auto Test Systems
- [Click Here For A Quote](#)
- [Click Here For RoHS C of C](#)
- 24 to 72 Hour Manufacturing Option Available
- 1.5 MHz to 125.0 MHz Frequency Range
- Tape & Reel Packaging
- [Click Here For Solder Reflow Profile](#)
- **RoHS Compliant**

#### Electrical Specifications

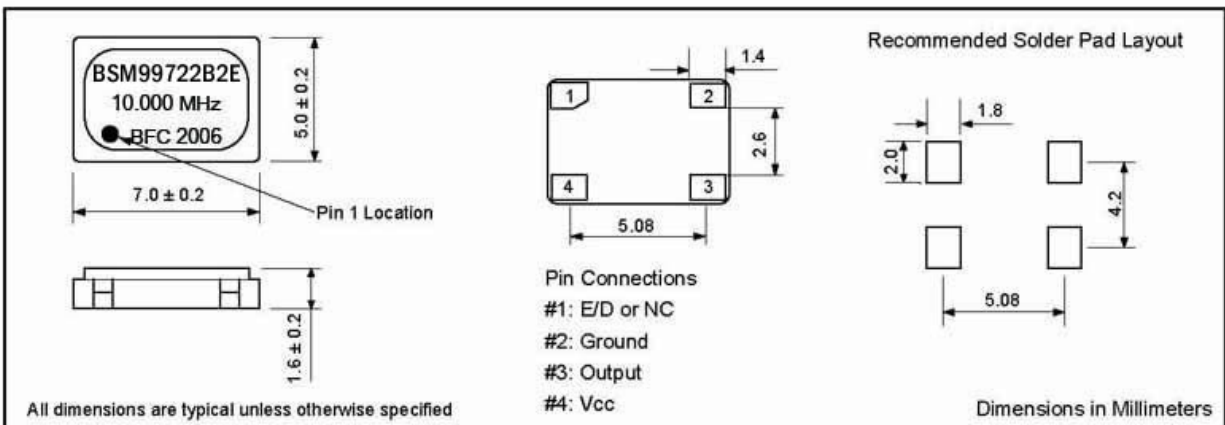
Frequency Range		1.0 to 165.0 MHz
Operating Temperature Range		0 to 70°C; -10 to 70°C -20 to 70°C; -40 to 85°C
Frequency Stability(ppm)		100ppm; 50ppm; 30ppm; 25ppm
Supply Current (mA)	1.5 MHz To 20 MHz	30mA
	>20 MHz	60mA
Supply Voltage (V)		3.3VDC
Output Levels	Output High	3.3
	Output Low	0.5
Output Symmetry (%)		60/40%      45/55%
Transition Times**	Rise Time (Tr)	10ns max
	Fall Time (Tr)	10ns max
	Start Up Time	10ms max
	Output Disabled Time	100ns max
	Output Enabled Time	100ns max
Phase Jitter(RMS, 1 Sigma)		1ps max for fj >1kHz; 0.3ps typical for fj= 12kHz - 20MHz
Output Load		HCMOS: Drive 50pF Load or 10 TTLGates
Logic "1"/ Logic "0" Level		0.9Vcc Min. / 0.1Vcc Max
Storage Temperature		-40°C to +125°C
Tri-State (input to pin 1)	Output Active	3
	Output in High-Impedance State	2.2V

#### 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 85°C	
		E = 25ppm	7 = -10 to 70°C	

Part Number Example BSM99722E7-27.000MHz is 60/60 Symmetry, 25ppm stability, -10 to 70°C @ 27.0 MHz

#### OUTLINE DRAWING



Brookdale Frequency Controls, Inc. 81G E. Jefryn Blvd., Deer Park, NY 11729 USA

Phone: 1-866-280-7700 or 631-242-1402 Fax: 631-595-1845

E mail: [sales@bfc-inc.com](mailto:sales@bfc-inc.com) [www.bfc-inc.com](http://www.bfc-inc.com) © Brookdale Frequency Controls, Inc. 2006