

Miniature, Ceramic, Surface Mount, Tristate HCMOS Oscillators

SM996 • SM997



FEATURES

- Ceramic/seam sealed package
- TTL/CMOS compatible
- Reflow solderable at 260°C for 10 seconds
- Tristate enable/disable
- Can be used as standard HCMOS oscillator by not connecting Pin #1
- 16mm tape & reel: 500pcs/reel Std or Bulk [<500pcs]

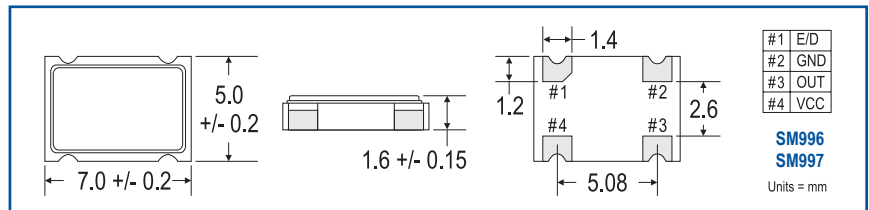
APPLICATIONS

- Wireless RF
- PCMCIA
- Cameras
- Disk Drives
- PDAs

SPECIFICATIONS

	SM996	SM997
Frequency Range	1.5 ~ 100.0 MHz	1.5 ~ 125.0 MHz
Supply Voltage	5.0 VDC \pm 0.5 V	3.3 VDC \pm 0.3 V
Symmetry	60/40% at 1/2 Vcc max 55/45% available	60/40% at 1/4 Vcc max 55/45% available
Input Current (MHz: mA max)	1.5 ~ 20.0 : 20 20.1 ~ 70.0 : 40 70.1 ~ 80.0 : 60	1.6 ~ 20.0 : 10 20.1 ~ 70.0 : 20 70.1 ~ 90.0 : 35 90.1 ~ 120.0 : 45
Rise & Fall Time (MHz: nS max)	1.5 ~ 25.0 : 10 25.1 ~ 70.0 : 8	1.5 ~ 25.0 : 10 25.1 ~ 70.0 : 8 70.0 ~ 120.0 : 5
Load Capacitance	15 pF standard (50 pF available)	
Start up Time	5.0 mS max	
Frequency Stability	\pm 100ppm standard (\pm 25ppm available)	
Oper Temp Range	0°C to 70°C standard (-40°C to 85°C available)	
Logic "0" Level	10% of Vcc max	
Logic "1" Level	80% of Vcc min	
E/D Phase Delay	100 nS max	

Monitor has a proven track record as a pioneer manufacturer in the frequency control market. If our extensive selection of standard and engineered crystals and oscillators does not meet your spec, we will work with you towards a customized solution.



Monitor Products Company Inc reserves the right to make changes to its products and product specifications without notice. No liability is assumed as a result of their use or application.

MONITOR PRODUCTS COMPANY INC

502 VIA DEL MONTE, OCEANSIDE, CA 92054

TEL: 760.433.4510

FAX: 760.434.0255

WWW.MONITOR-PRODUCTS.COM

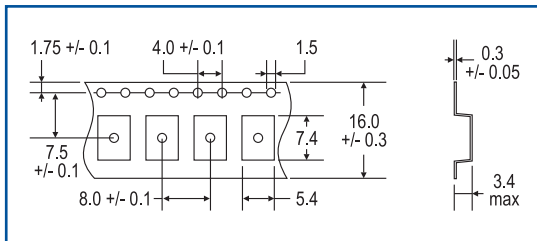
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Для заказа отправьте заявку на почту: mail@kvarci.ru

SM996 • SM997

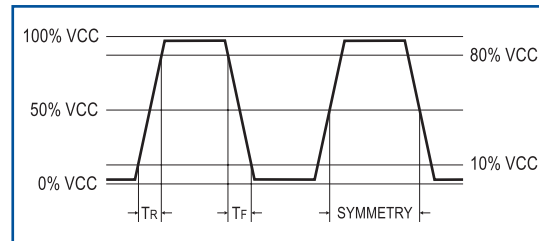
ENVIRONMENTAL PERFORMANCE SPECIFICATIONS

Operating Temp Range	0°C to 70°C standard (-40°C to 85°C available)
Storage Temp Range	-55°C to 125°C
Vibration	MIL-STD-202F Method 204, 35G, 50 to 2000 Hz
Shock	MIL-STD-202F Method 213B Test Cond E, 1000G, 1/2 Sine Wave
Humidity	85% RH, 85°C, 48 Hours
Hermetic Seal	Leak Rate 2×10^{-8} ATM-cm ³ /sec max
Solderability	MIL-STD-202F Method 208E
MIL-0-55310	Exceeds environmental and electrical specifications of equivalent MIL-0-55310
Packaging	16mm Tape & Reel (500pcs/reel standard, or Bulk <500pcs)

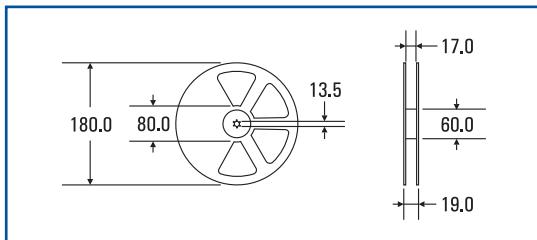


TAPE DIMENSIONS

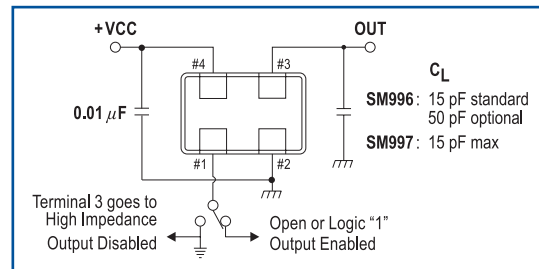
Units : mm



TYPICAL OUTPUT WAVEFORM



REEL DIMENSIONS (500pcs/reel std)



TEST CIRCUIT

PART NUMBERING KEY

Sample Part Numbers

SM99621B2E @ 19.44 MHz	=	SM996	21	B	2	E	19.44
SM99722E2A @ 22.0 MHz	=	SM997	22	E	2	A	22.0

* Standard

Call plant for additional options. Use full descriptive part number when ordering. Parts will be marked with series and frequency only.

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