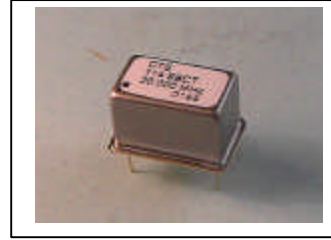


- ◆ Low Cost ASIC Based Design
- ◆ Frequency Stability to Stratum 3 of GR-1244
- ◆ Use with Zarlink SONET/SDH Synchronizer ZL30407
- ◆ +3.3Vdc or +5.0Vdc Operation
- ◆ Precision Low Aging "AT" Cut Crystal
- ◆ Through-Hole or Surface Mount Configuration

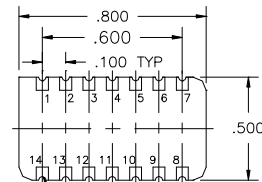
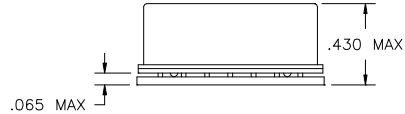
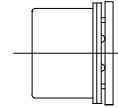
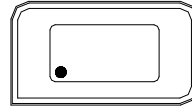


**Electrical Characteristics**

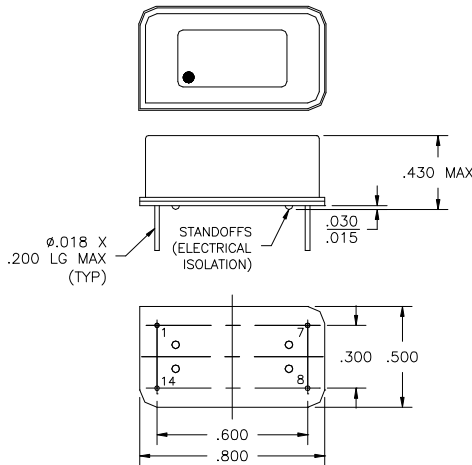
Parameter	Sym	Conditions	Min	Typical	Max	Unit
<b>Power Requirements</b>						
Power Supply (See Dash # Table)	Vcc	± 5%	3.135	3.30	3.465	Vdc
		±5%	4.75	5.0	5.25	Vdc
Turn-On Power	Pmax	Vcc=Max. Std. Load		3.5	4.0	W
Steady State Power	Pss	Vcc=Max Std. Load @ +25°C		1.5		W
Warm-Up Time	Twu	To within ±0.3ppm @ +25°C			5	minutes
<b>Frequency Stabilities</b>						
Center Frequency (See Dash # Table)	f <sub>nom</sub>			20.00		MHz
Initial Tolerance	f <sub>cal</sub>	Ta=+25°C (At time of Shipment)		±0.1	±0.3	ppm
Freq. vs. Temp.	Δf/ΔTemp	0°C to +70°C -40°C to +85°C		±0.075 ±0.15	±0.125 ±0.25	ppm ppm
Freq. vs. Voltage	Δf/ΔVcc	Vcc ±5%		± 0.05	±0.1	ppm
Freq. vs Time (Aging)	Δf/ΔTime	per Day 20 years			±0.02 ±3.5	ppm ppm
24 Hour Holdover Stability	Δf/24Hr	Inclusive of Temp., Supply Variation and 24Hrs. Aging		±0.2	±0.37	ppm
Total Free- Running Accuracy	Δf/Life	All Cond. for 20 Yrs. (Ref. to f <sub>nom</sub> )			±4.6	ppm
<b>Waveform: HCMOS Output</b>						
Symmetry	Sym	@ 50% Level	40	50	60	%
Amplitude	Vo	Logic "1"	0.9Vcc			V
		Logic "0"			0.1Vcc	V
Rise/Fall Times	tr, tf	20% to 80%		6		nSec
Load	RL	Output to Ground		10KΩ // 15pF		

Dash No.	Package	Vcc	Operating Temp. Range
-001	SM	+5.0 Vdc	0°C to +70°C
-002	SM	+5.0 Vdc	-40°C to +85°C
-003	SM	+3.3 Vdc	0°C to +70°C
-004	SM	+3.3 Vdc	-40°C to +85°C
-005	TH	+5.0 Vdc	0°C to +70°C
-006	TH	+5.0 Vdc	-40°C to +85°C
-007	TH	+3.3 Vdc	0°C to +70°C
-008	TH	+3.3 Vdc	-40°C to +85°C

SURFACE  
MOUNT  
PACKAGE  
OUTLINE



14X PADS .068 X .075  
WITH  $\phi$ .043 CASTELLATION



THROUGH  
HOLE  
PACKAGE  
OUTLINE

**Pin Connections**

- 1 N/C
- 7 0V & Case Gnd.
- 8 Output
- 14 Vcc

All others N/C

**Environmental / Mechanical Specifications**

Storage Temperature:	-55° to +125°C
Reflow Soldering:	will withstand 240°C for 20 Seconds
Shock:	50 G's, 11 mSec. Pulse (3 Shocks/Axis)
Vibration:	10 G's peak, 20 to 2000 Hz
Case:	4-Pin Dual-In-Line
Seal:	Resistance Weld
Surface Mount Base	Hi-Temp FR-4

**Ordering Information**

**03-42126-**  Example: 03-42126-008

Dash No. from Table