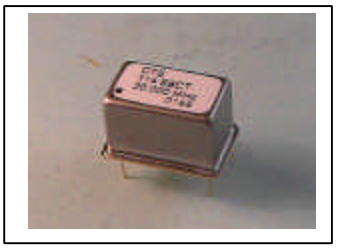
Model 03-42126
Dual-In-Line
20.0 MHz Stratum 3 OCXO

- 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
Power Requirements						
Power Supply (See Dash # Table)	Vcc	± 5% ±5%	3.135 4.75	3.30 5.0	3.465 5.25	Vdc 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
Frequency Stabilities						
Center Frequency (See Dash # Table)	f_{nom}			20.00		MHz
Initial Tolerance	f_{cal}	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_{nom})			±4.6	ppm
Waveform: HCMOS Output						
Symmetry	Sym	@ 50% Level	40	50	60	%
Amplitude	Vo	Logic “1” Logic “0”	0.9Vcc		 0.1Vcc	V V
Rise/Fall Times	tr, tf	20% to 80%		6	10	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

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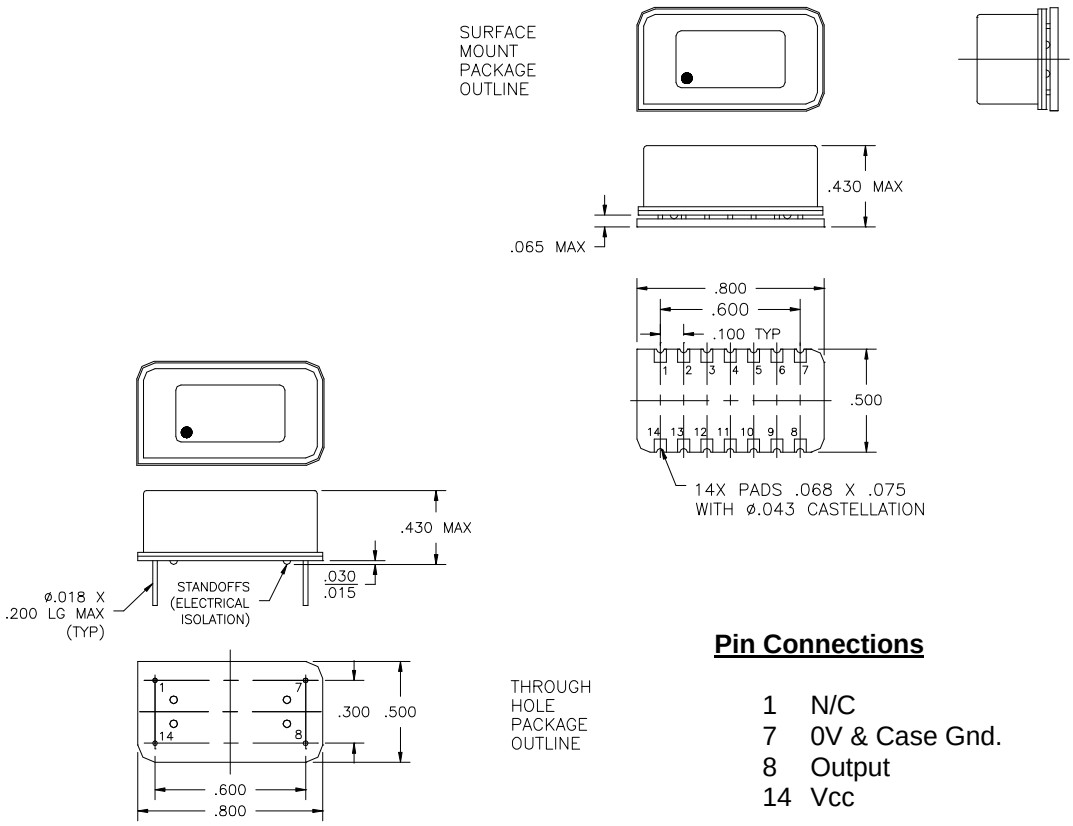

Pin Connections

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