APPLICATIONS

PCS Base Stations
Cellular Base Stations
Digital Switching
Synthesizers
Test Equipment

FEATURES

High Stability
Economical
Low Aging
SC-Cut Crystal

Model	Output	Supply Voltage[2] ±5%	Temperature Range with Stability (°C)	Good	Best	Frequency Control	Frequency
4858S	5 (dBm Sine)	5 (5 Volts)	B (0 to +50)	69 (±6 x 10^{-9})	49 (±4 x 10^{-9})	E (Electrical)	2 – 18 MHz
	H (HCMOS)[3]	12 (12 Volts)	C (0 to +70)	89 (±8 x 10^{-9})	69 (±6 x 10^{-9})	M (Mechanical)	
		15 (15 Volts)	D (-20 to+70)	99 (±9 x 10^{-9})	79 (±7 x 10^{-9})	B (Elect. & Mech.)	
			E (-40 to+70)	28 (±2 x 10^{-8})	18 (±1 x 10^{-8})		

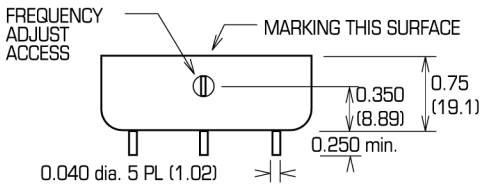
ADDITIONAL PARAMETERS

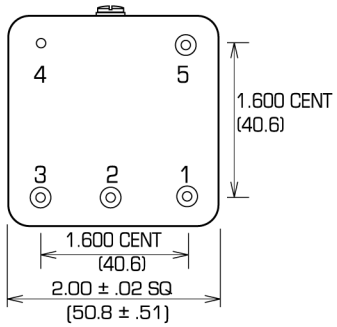
2 – 18 MHz

Yearly Aging:	± 0.075 ppm 10MHz ± 0.1 ppm > 10MHz
Daily Aging[1]:	<±1 x 10^{-9} after 48 hrs.
Supply Voltage Options:	See Chart
Power Consumption:	2.0 W @ 25°C steady state
Warm-up Power:	8 W
Warm-up Time:	To within ± 0.01 ppm of final frequency in 5 min. @ 25°C

Electrical Freq. Control

Deviation:	± 0.5 ppm Typ., (sufficient for >15 yrs.)
Voltage Range:	1 to 5 V
Slope:	Positive





Dimensions: Inches (mm)

SINEWAVE OPTIONS

Harmonics	-30 dBc
Load	50 ohms
Output Level	+5 dBm min.

PHASE NOISE[1]

1 Hz Offset	– 80 dBc/Hz
10	– 110
100	– 140
1K	– 150
10K	– 150

PIN CONNECTIONS[5]

1 – EFC[4]
2 – Supply Voltage (osc)
3 – RF Output
4 – Case GND
5 – Supply Voltage (oven)

[1] Typical Values at 10.0 MHz. [2] Oscillator and oven supply same voltage.
[3] HCMOS can drive TTL, ACMOS and CMOS.
[4] When Mechanical Trim option (M) is chosen, Pin 1 will be "no connection."
[5] Oven monitor alarm available.

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