MODEL 4834
4 – 30 MHz

OAK Frequency Control Group

APPLICATIONS

PCS Base Stations
Cellular Base Stations
Digital Switching
Bench Reference
Test Equipment

FEATURES

Excellent Temperature Stability
Very Low Aging
Fast Warm-Up
SC-Cut Crystal

Model	Output	Supply Voltage	Temperature Range with Stability (°C)	Good	Best	Reference Voltage	Frequency
4834	8 (dBm Sine)	12 (12 Volts)	B (0 to +50)	59 ($\pm5 \times 10^{-9}$)	39 ($\pm3 \times 10^{-9}$)	R (8 Volts)	4 – 30 MHz
	H (HCMOS)[2]		C (0 to +70)	79 ($\pm7 \times 10^{-9}$)	49 ($\pm4 \times 10^{-9}$)	N (N/C)	
			D (-20 to+70)	18 ($\pm1 \times 10^{-8}$)	59 ($\pm5 \times 10^{-9}$)		
			H (-55 to+75)	38 ($\pm3 \times 10^{-8}$)	18 ($\pm1 \times 10^{-8}$)		

ADDITIONAL PARAMETERS

Yearly Aging[3]:	± 0.030 ppm max
Daily Aging[1]:	$<\pm5 \times 10^{-10}$ after 72 hours
Supply Voltage:	+12 V ± 5%
Power Consumption:	1.5 W @ 25°C steady state
Warm-up Power:	10 W
Warm-up Time:	To within ± 0.01 ppm of final frequency in 5 min. @ 25°C
Electrical Frequency Control	
Deviation:	± 0.4 ppm Typ., (sufficient for 15 yrs.)
Voltage Range:	0 to 8V
Slope:	Negative

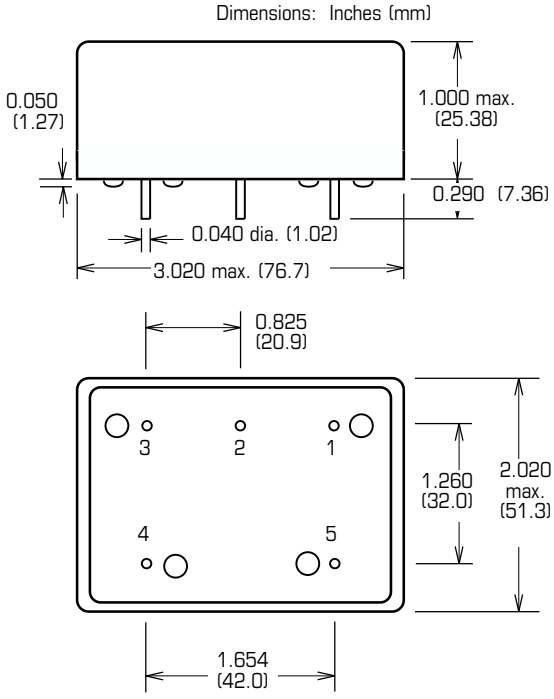
SINEWAVE OPTIONS

Harmonics	-30 dBc
Load	50 ohms
Output Level	+8 dBm min. (Available from +3 dBM to +12 dBm)

PHASE NOISE	@ 5 MHz	@ 12 MHz
1 Hz Offset	– 80 dBc/Hz	– 80 dBc/Hz
10	– 120	– 120
100	– 140	– 135
1K	– 150	– 140
10K	– 155	– 140

[1] Typical Values at 5 MHz. [2] HCMOS can drive TTL, ACMOS, HCMOS and CMOS.
[3] Low aging option available. Contact factory for details.

Dimensions: Inches (mm)



PIN CONNECTIONS

1 – GND/Case GND
2 – EFC
3 – Reference Voltage Output or N/C
4 – Supply Voltage
5 – RF Output