Bliley

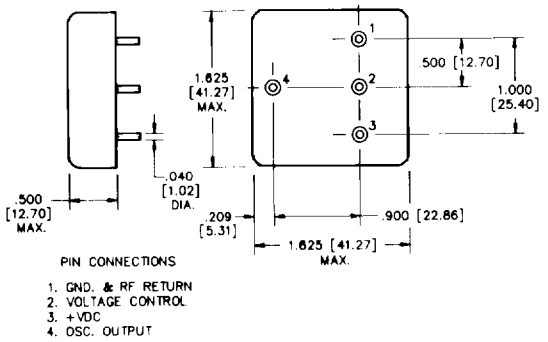
first | name in frequency control

CRYSTAL OSCILLATORS

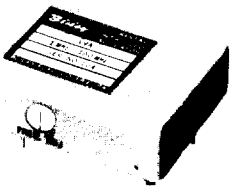
Voltage Controlled (VCXO)

BLILEY VOLTAGE CONTROLLED CRYSTAL OSCILLATORS combine inherent crystal stability and voltage controlled frequency deviation in a single solid state device.

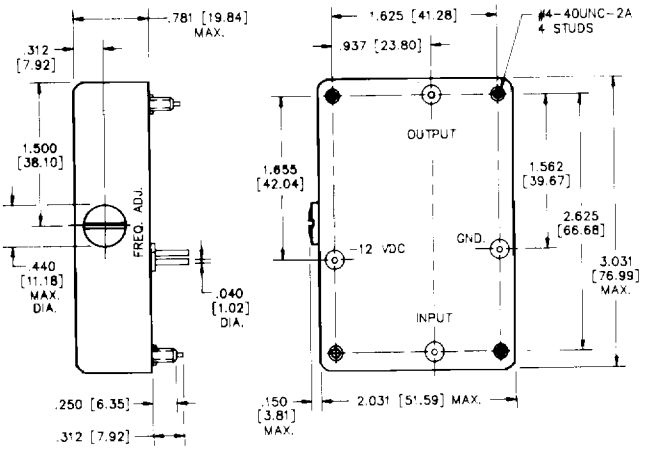
V19A



Frequency Range:	32 kHz to 20 MHz
Frequency Stability:	±.0015%
Operating Temperature Range:	0°C to +70°C
Frequency Deviation:	±.004% minimum
Linearity:	±20% maximum
Modulation Voltage:	+1V to +4V
Transfer Function:	positive
Output:	TTL compatible
Supply Voltage:	+5 Vdc ±5%
Mounting:	PC board mount using 4 terminals
Size:	1.625" x 1.625" x .500" maximum
Options:	High Speed CMOS Output



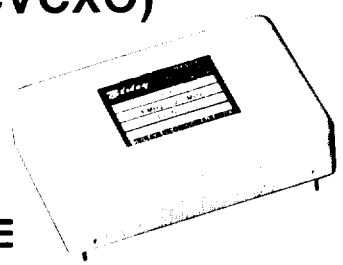
V9A



FREQUENCY DEVIATION	FREQUENCY STABILITY	TEMPERATURE RANGE
±.01%	±.001% ±.002%	0°C to +50°C −20°C to +70°C
±.05%	±.002% ±.005%	0°C to +50°C −20°C to +70°C
±.1%	±.004% ±.008%	0°C to +50°C −20°C to +70°C
±.2%	±.005% ±.01%	0°C to +50°C −20°C to +70°C

- Center frequency range from 1 to 100 MHz.
- Standard design parameters are based on operation with −12 Vdc; 25 mA supply. Other voltages may be specified as a custom option.
- Standard output is Sine Wave, typical 1V rms into 1000 ohms or .25V rms into 50 ohms.
- Mechanical trim is provided for center frequency adjustment.
- Typical modulation voltage is ±5V with a modulating input impedance of 10K ohms and modulation rate from DC to 20 kHz.
- Linearity: ±1% to ±5% dependent upon frequency deviation.

Temperature Compensated Voltage Controlled (TCVCXO)



TV9E

Frequency Range:
4 MHz to 20 MHz

Frequency Stability:
$\pm 1 \times 10^{-6}$ at any control voltage

Operating Temperature Range:
0°C to +60°C

Electrical Frequency Control:
a) Control Voltage:
0 to +10V
b) Range:
±10 ppm to ±15 ppm
c) Input Impedance:
2K ohms minimum

Output:
TTL

Aging:
1×10^{-6}/year typical

Supply Voltages:
+5 Vdc ±5% **and**
+12 Vdc ±5% required

Case Size:
2.00" x 3.00" x 0.75" nominal

Options:
- High Speed CMOS (HCMOS)
- Sine Wave output & higher frequencies with a larger case size
- Other supply voltages
- Other case sizes