



VF150TR Series TTL Transistor Type Hybrid Crystal Clock Oscillators

Valpey-Fisher's VF150TR series of hybrid transistor clock oscillators offers TTL compatibility at lower cost. The high quality, hermetic 14 pin package assures specified performance over a wide range of temperature and humidity conditions. The pin 7 case ground on the resistance-welded metal package provides integral RF shielding. Standard wave solder assembly techniques can be used, with excellent defluxing provided by the insulated standoffs. Surface mount packages are available also.

FEATURES

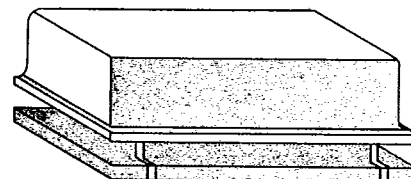
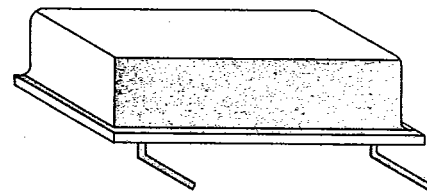
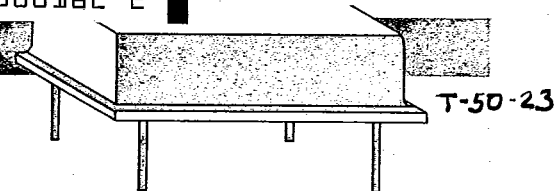
- TTL Compatibility
- Rugged Resistance Welded Metal Case
- Integral RF Shielding
- Lower Cost
- Proven Quality
- Through Hole, Gull Wing or Leadless Surface Mount

SPECIFICATIONS

Frequency Range	4.0 MHz–50.0 MHz
Frequency Stability*	± 0.01% max
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	–55°C to +125°C
Input Voltage	5.0 V, ± 0.5 V
Input Current	35 mA max
Symmetry	50% ± 10% @ 1.4 V
Rise/Fall Time (0.4 V to 2.4 V)	10 nsec max
Logic '0' Level	0.4 V max
Logic '1' Level	2.4 V min
Output Load	5 N-TTL
Start-up Time	5.0 msec typ, 20.0 msec max
Shock	1000 G's, 0.35 msec, 1/2 sine wave, 3 shocks each plane
Vibration	10 – 55 Hz, 0.060" D.A., 55 – 2000 Hz, 35 G's, duration time 12 hours
Humidity	85% relative humidity, 85°C, 250 hours
Hermetic Seal	Leak rate less than 2×10^{-8} atmosphere cc/sec of helium

* Inclusive of calibration tolerance @ 25°C, operating temperature range, input/output voltage change, load voltage change, aging, shock and vibration.

All specifications subject to change without notice.

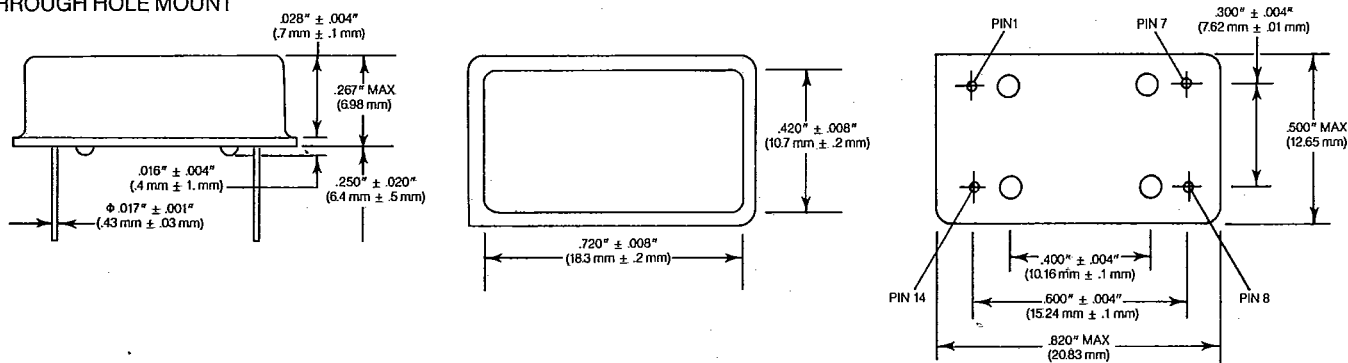


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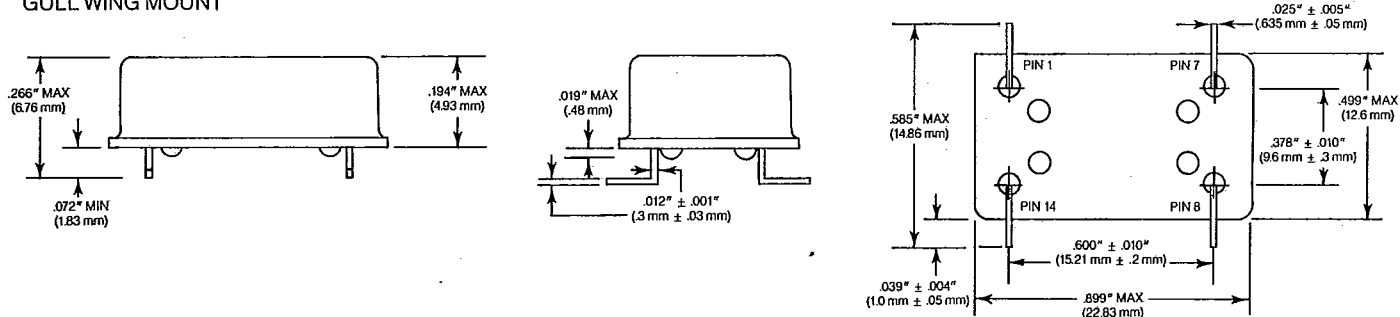
HOW TO ORDER

Frequency Range (MHz)	Stability (%)	Part Number		
		Through Hole	Gull Wing	Leadless
4.00 to 25.00	0.0025	VF150TA	VF150TGA	VF150TLA
	0.005	VF150TB	VF150TGB	VF150TLB
	0.01	VF150T	VF150TG	VF150TL
	0.05	VF150TC	VF150TGC	VF150TLC
	0.25	VF150TD	VF150TGD	VF150TLD
25.01 to 50.00	0.0025	VF155TA	VF155TGA	VF155TLA
	0.005	VF155TB	VF155TGB	VF155TLB
	0.01	VF155T	VF155TG	VF155TL
	0.05	VF155TC	VF155TGC	VF155TLC
	0.25	VF155TD	VF155TGD	VF155TLD

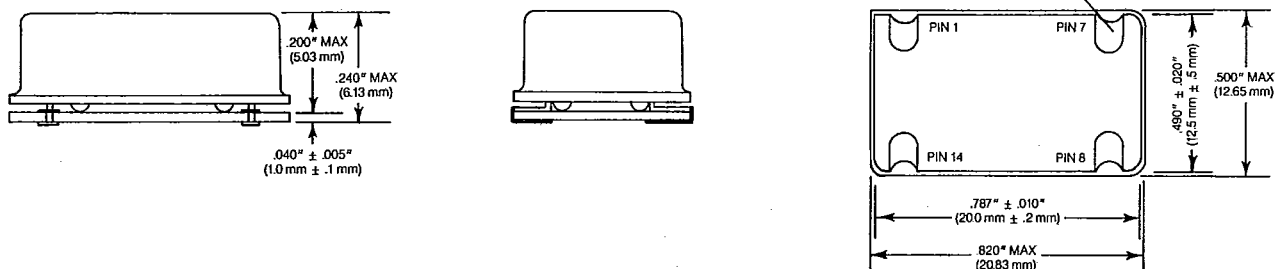
THROUGH HOLE MOUNT



GULL WING MOUNT



LEADLESS MOUNT



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