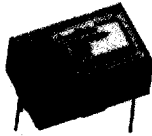


OSCILLATORS

CRYSTAL OSCILLATORS

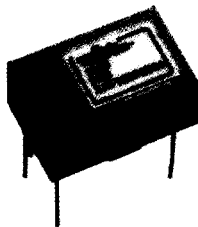
HIGH STABILITY CRYSTAL OSCILLATORS



SPECIFICATIONS

MODEL	TC2178 AN
Features	High stability
Frequency Range	5MHz to 155MHz
*Frequency Stability vs. Temperature Range	± 1 ppm -40°C to $+85^{\circ}\text{C}$
Input Voltage and Current	+5VDC, $\pm 5\%$ @ 2mA max.
Output Types	Clipped Sine Wave, Sine Wave, CMOS
Load	$1\text{k}\Omega // 10\text{pF}$
Aging Rate	± 1 ppm/Yr., ± 5 ppm/10Yrs.
Frequency Adjustment	TC2178 Mech.; 5 Yr. Range Min.
Package	TC2178AN - $11.71 \times 18.30 \times 9.00$

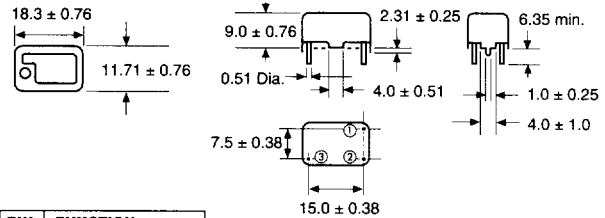
*Other temperature ranges and stabilities available.



SPECIFICATIONS

MODEL	TV2178
Features	High Stability
Frequency Range	5.0MHz to 155MHz
Input Voltage and Current	+5.0VDC, $\pm 5\%$ @ 2mA max.
Output Types	Clipped Sine Wave, Sine Wave, CMOS
Load	$1\text{k}\Omega // 10\text{pF}$
Frequency Adj.	Mechanical; 5 Yr. Range min.
Electronic Freq. Control: Control Voltage and Deviation	$2.5\text{V} \pm 2\text{V}$, ± 6 ppm min.
Frequency Stability	vs. Temperature ± 1 ppm, -40°C to $+85^{\circ}\text{C}$ vs. Supply Voltage ± 0.08 ppm, (+5.0VDC, $\pm 5\%$)
Aging	± 1.0 ppm/1 Yr., ± 5 ppm/10 Yr.
Package	$11.71 \times 18.30 \times 9.00$

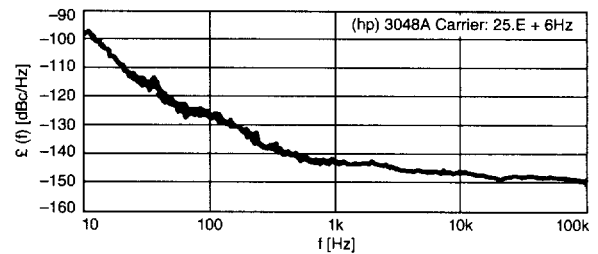
TC2178



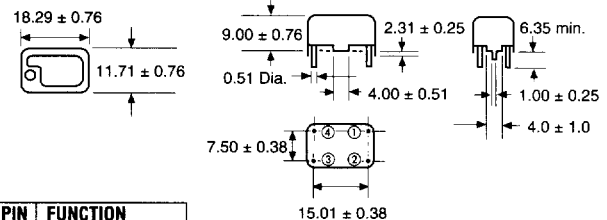
PIN	FUNCTION
1	Common and Case
2	Output
3	+Vcc

Dimensions: mm

TYPICAL PHASE NOISE (TC2178)



TV2178



PIN	FUNCTION
1	Common and Case
2	Output
3	+Vcc
4	+Vc Input

Dimensions: mm

TYPICAL PHASE NOISE (TV2178)

