



FEATURE

- Construction with ruggedised crystal
- Construction with 3 tier mount crystal
- Custom Options available
- RoHS Compliant Standard

Table 1

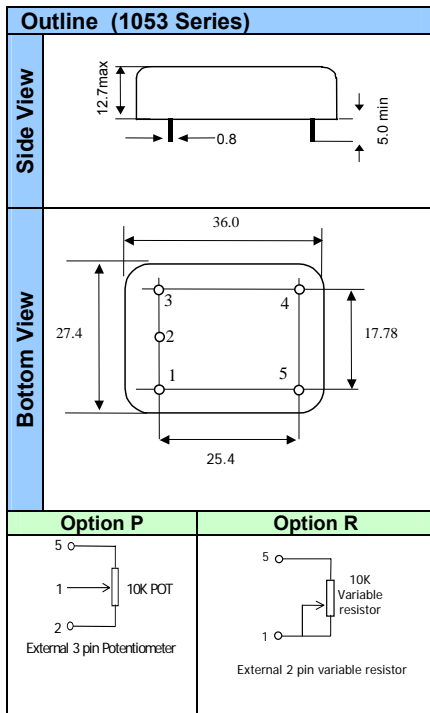
| Codes | Stability Codes | | X | Y | Z | P |
|-------|---------------------------|--|----------|----------|----------|----------|
| | Frequency stability range | | ±0.5 PPM | ±1.0 PPM | ±1.5 PPM | ±2.0 PPM |
| A | 0 to +50° C | | | | | |
| B | 0 to +60° C | | | | | |
| F | 0 to +70° C | | | | | |
| D | -10 to +60° C | | | | | |
| E | -10 to +70° C | | | | | |
| C | -20 to +70° C | | | | | |
| G | -30 to +80° C | | | | | |
| H | -30 to +85° C | | | | | |
| I | -40 to +85° C | | | | | |

■ Denotes Available □ Denotes not Available

Table 2

| Supply Voltage | 3.3V | 5V | 9V | 10V | 12V | 15V |
|----------------|------|----|----|-----|-----|-----|
| Code | 3 | 5 | 9 | A | C | F |

MECHANICAL SPECIFICATIONS



▲ All dimensions are in mm.

Pin Configuration of TCXO 1053

| PIN | Option N & I | Option V | Option P | Option R |
|-----|---------------|-----------------|------------------------|--------------------------------------|
| 1 | No Connection | Control Voltage | POT Wiper End | Variable Resistor one end |
| 2 | No Connection | No Connection | POT one End | No Connection |
| 3 | Supply | Supply | Supply | Supply |
| 4 | Output | Output | Output | Output |
| 5 | Ground | Ground | Ground (POT other end) | Ground (Variable Resistor other end) |

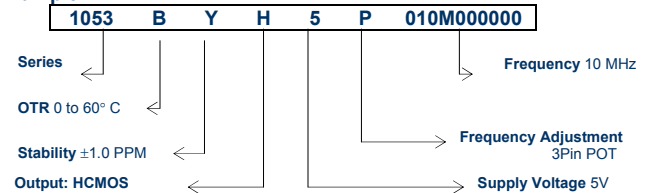
| Parameters | Variant | | | Option Codes |
|--------------------------------|--|---|---|-----------------------|
| | H | T | S | |
| Series: | TCXO 1053 | | | |
| Frequency Range: | 1 MHz – 150 MHz 8 MHz – 150 MHz | | | |
| Output Drive: | 15 pF HCMOS / TTL Sine wave Other | | | Specify |
| Output Levels: | Logic '0' = +0.5V max, '1' = +4.0V min Logic '0' = +0.4V max, '1' = +2.4V min +0 dBm (min) into 50Ω | | | |
| Rise / Fall time: | 10 ns max | | | |
| Waveform Symmetry: | 40:60 max @ 2.5V 40:60 max @ 1.4V | | | |
| Frequency at Room Temperature: | ±1.0ppm at 25°C±2°C | | | |
| Frequency Stability: | (Table 1) | | | Specify |
| Temperature range: | (Table 1) | | | Specify |
| Supply voltage (VDD): | (Table 2) + 5.0V (±5%) +12.0V (±5%) Others | | | Specify |
| Supply current: | 20 mA max (<20.0 MHz) 30 mA max (20.0 ~ 50.0 MHz) 50 mA max (>50 MHz) | | | |
| Supply Voltage Stability: | ±0.1 ppm max. per 5% change | | | |
| Ageing: | ±1.0 ppm max per year | | | |
| Frequency adjustment: | ±5 ppm by Control Voltage Trim (0.5 Vcc ± 0.5 Vcc) ±3 ppm min by internal trimmer ±5 ppm by external 3 pin potentiometer ±5 ppm by external 2 pin variable resistor None | | | V I P R N |
| Storage Temperature Range: | -55 to +125° C | | | |

■ Standard, □ Optional – please specify required code(s) when ordering.

| Tests | Condition |
|--------------------|---|
| Vibration (Random) | 20-100 Hz, 6 Db/Octave; 100-1000 Hz Constant 1000 –2000 Hz –6 dB/Octave |
| Shock | 40g, 11 ms Half Sine Wave |

Ordering Information

Example



Specifications subject to change without notice
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