TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR - TXCO

World Technologies Ltd. TCXO's are designed for low power consumption to provide a high stability frequency reference over a pre-determined wide temperature range. WTL offers various package sizes and features optimized for your particular application.

The TXCO characteristics can be cost effective on the following specifications and must be considered when specifying these parameters.

Frequency Range: Specify within range of 9.000000MHz to 50.000000 MHz.

Frequency Stability: The best and most achievable stabilities (for AT cut crystals) are ±1 ppm, ±1.5 ppm, ±2.0 ppm, up to ±5.0 ppm. Typically, a ±5.0 ppm stability over a temperature range of (0°C to 50°C) will cost less than ±2.5 ppm at (-30°C to 75°C).

Operating Temperature Range: You may select from the technical data sheet and this parameter can be cost effective.

Input Voltage: Standard input is +5 volts DC ± 5%. (Optional input is =3 volts DC ± 5% for battery operated portable applications. There is no extra charge for a 3 Volt circuit.)

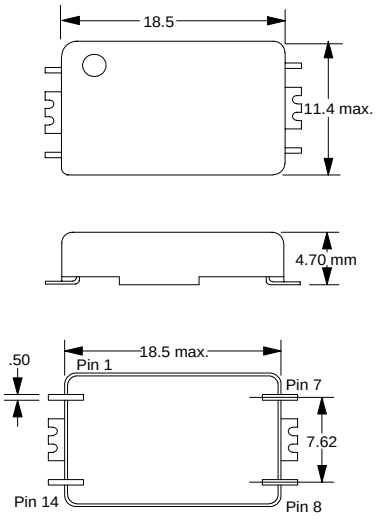
Package Style: WTL offers TCXO's in various through hole and surface mount packages. Most economical are the package style A & B. Package style C & D are not pictured, however, have the same foot print as style B.

Temperature Compensated Crystal Oscillators — WTL 8000 Series

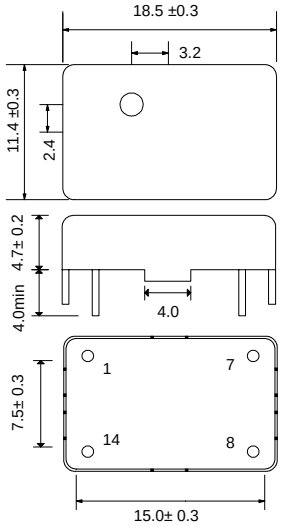
SPECIFICATIONS	ELECTRICAL
Frequency Range	9.000000MHz to 50.000000MHz
Standard Freq (MHz)	9.0, 9.6, 10.0, 10.24, 12.0, 12.8, 15.369, 20.456, 50.000
Frequency Stability	① ± 1.5 ppm
	② ± 2.0 ppm
	③ ± 2.5 ppm
	④ ± 3.0 ppm
	⑤ ± 3.5 ppm
	⑥ ± 5.0 ppm
Operating Temperature Range	① 0°C to +50°C
	② -10°C to +60°C
	③ -20°C to +70°C
	④ -30°C to +60°C
	⑤ -30°C to +75°C
	⑥ -35°C to +80°C
	⑦ -40°C to +85°C
Input Volt. Change	±0.3 ppm / ±5V ±5%
Input Voltage	① 5V ±5% (Standard)
	② 3V ±5% (For battery applications.)
Output Voltage	1Vp-pmin
Current Consumption	1.5mA, 2mA max
Load	10K //10pf
Aging	±1ppm/year
Frequency Adjustment	Internal Trimmer ±3ppm min
Package Style	(A) - SMD (4.7 mm Height)
	(B) - DIP (4.7 mm Height)
	(C) - DIP (5.8 mm Height)-Refer to "B"
	(D) - DIP (7.5 mm Height)-Refer to "B"
	(E) - SMD (3.7 mm Height)
	(F) - SMD (3.7 mm Height)
	(G) - SMD (2.0 mm Height)
P/N code	WTL - 8 ❑ ❑ ❑ ❑
WTL8351G-10	Package / Input voltage / Operating temperature / Freq. stability

MECHANICAL

OUTLINE DIMENSIONS



(A) SMD (4.7 HEIGHT)

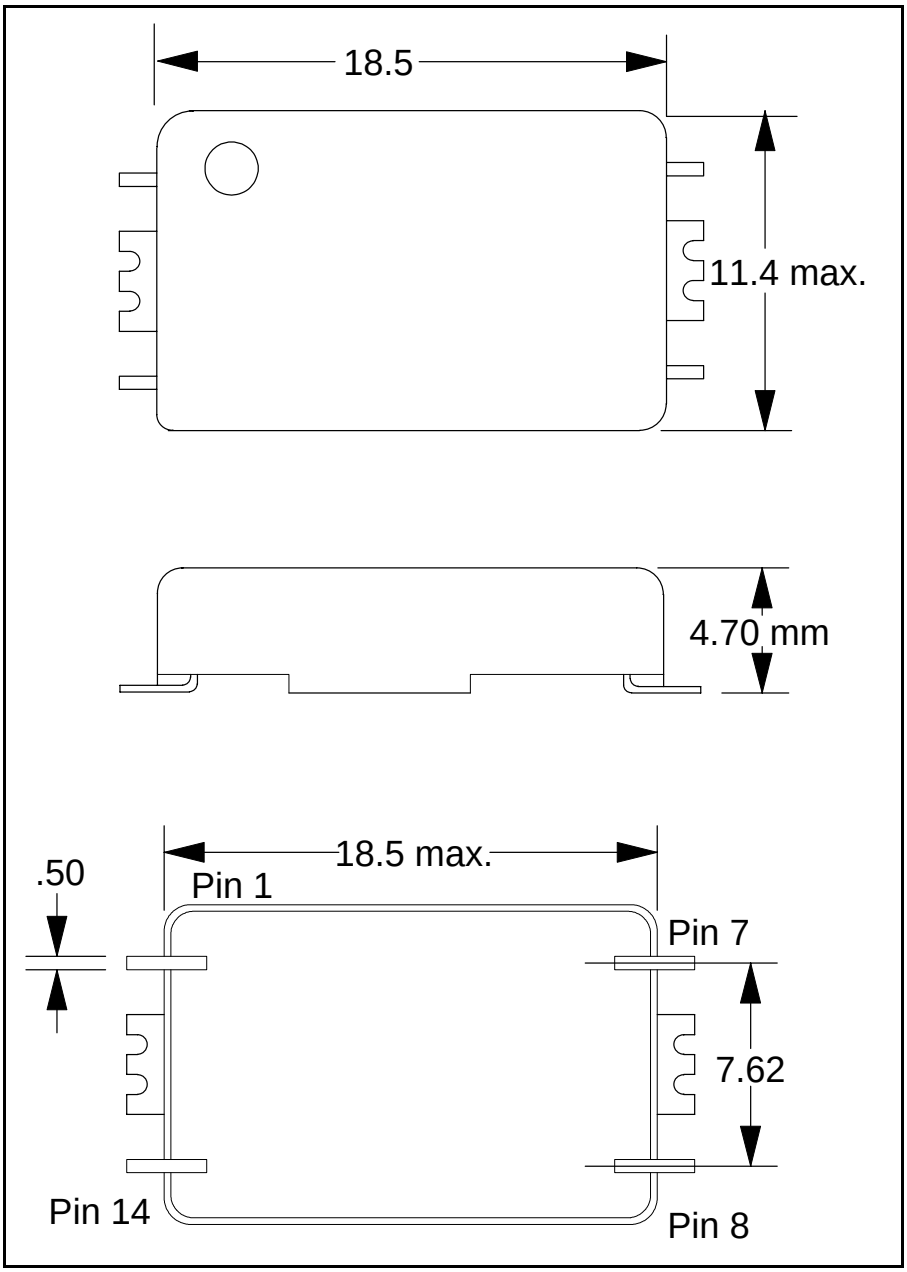


(B) DIP (4.7 HEIGHT)

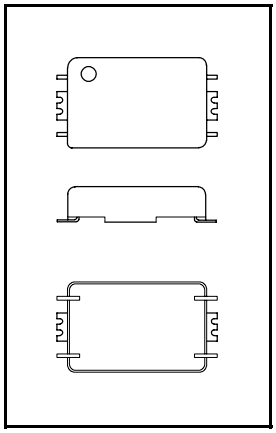
PIN CONNECTION

1. No Connection
7. GND and CASE
8. Output
14. Vcc

PACKAGE STYLE "A"



Enlarged View



Actual Size Shown Above
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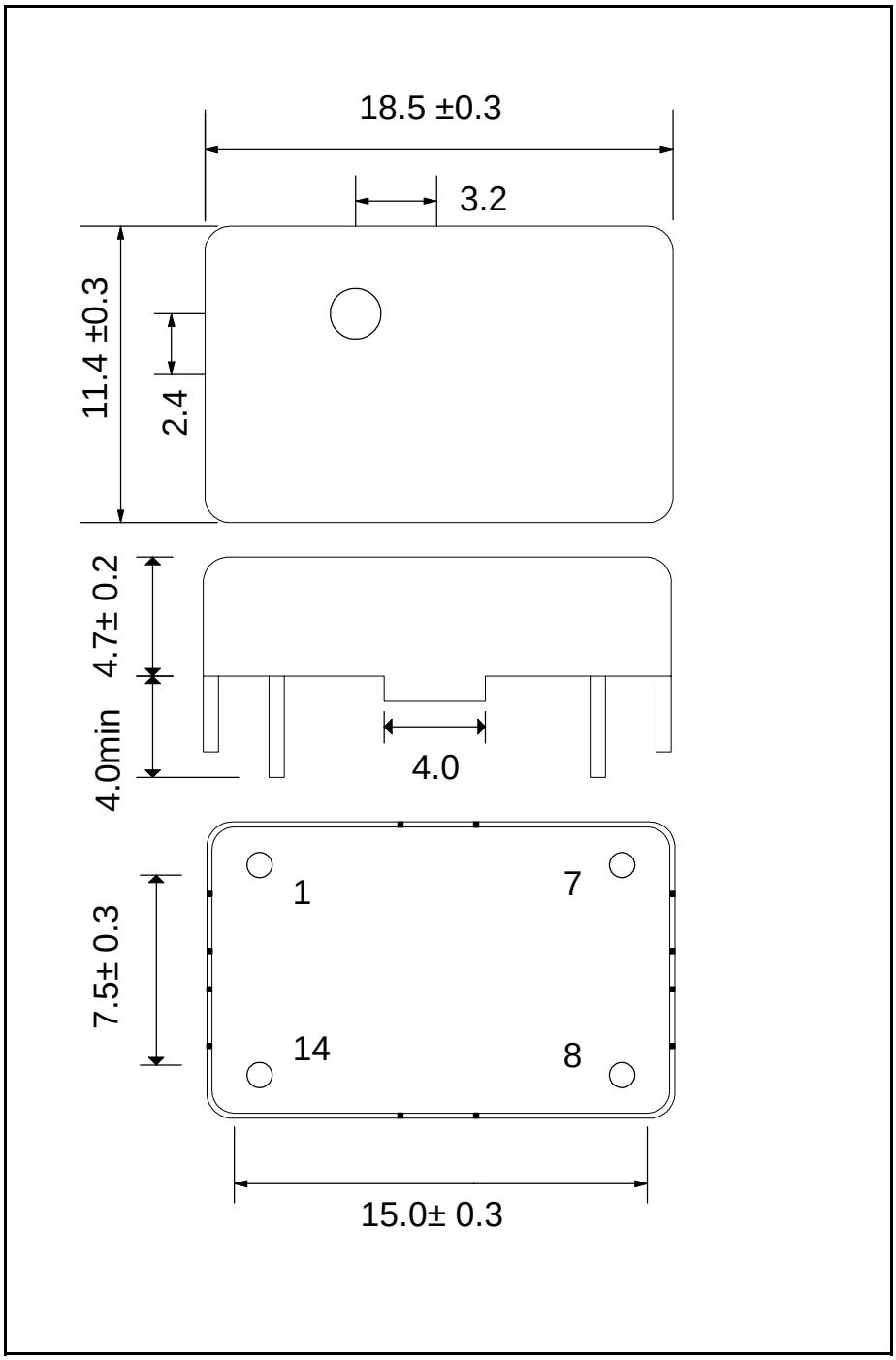
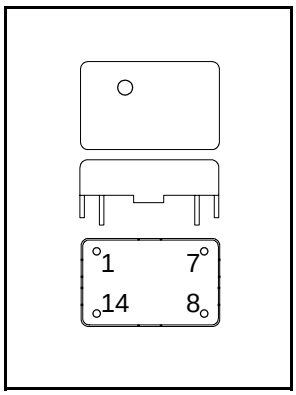
Pin	Connection
1	N.C.
7	GND
8	Output
14	Vcc

PACKAGE STYLE “B”



Enlarged View

Pin	Connection
1	N.C.
7	GND
8	Output
14	Vcc



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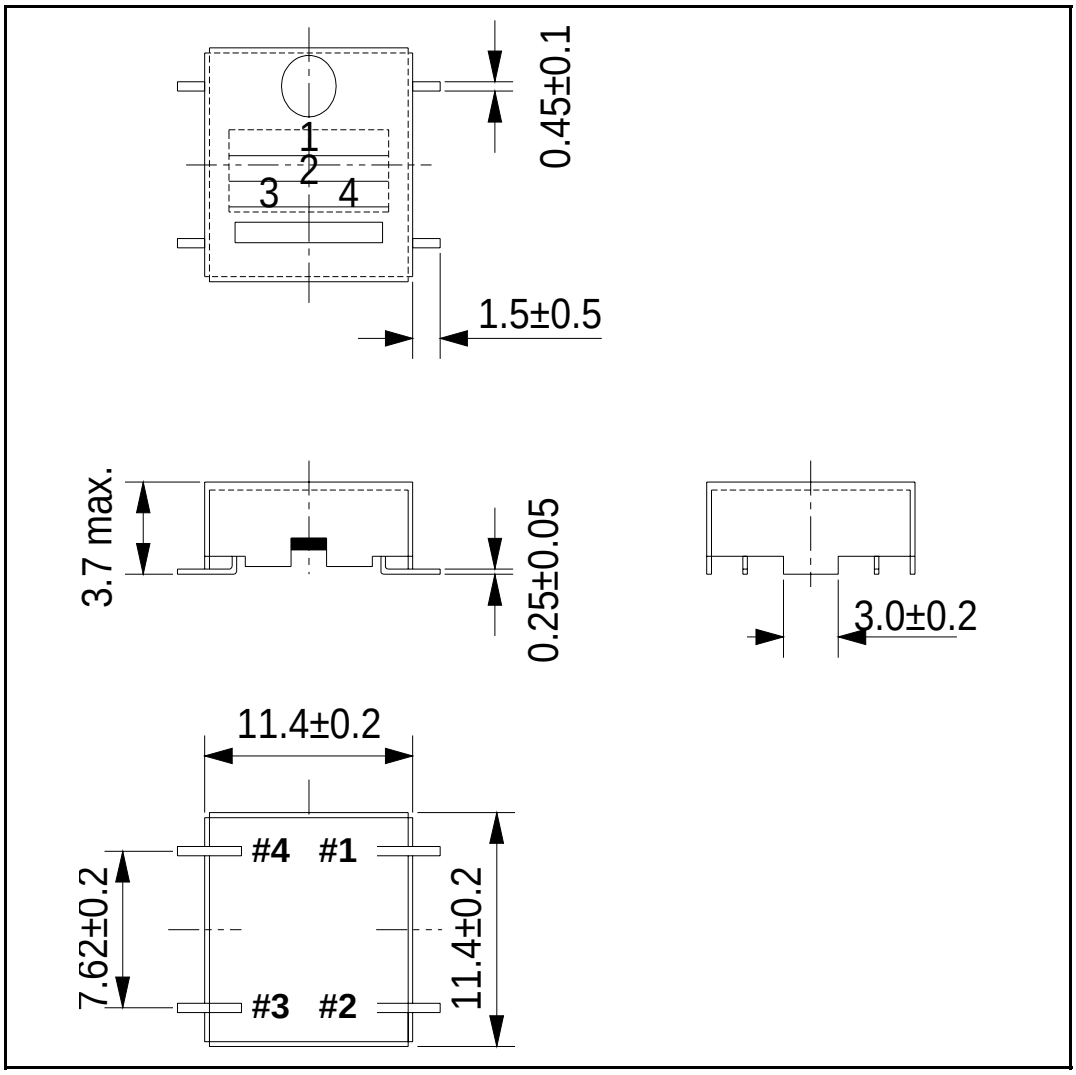
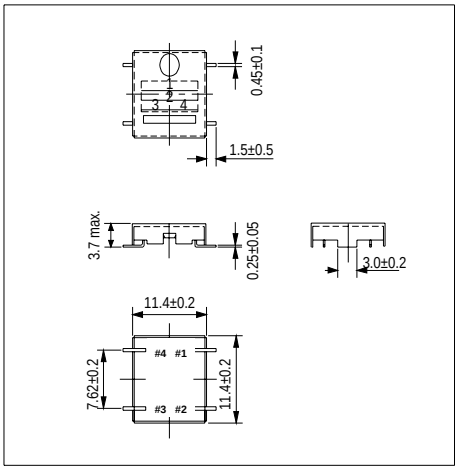


Enlarged View



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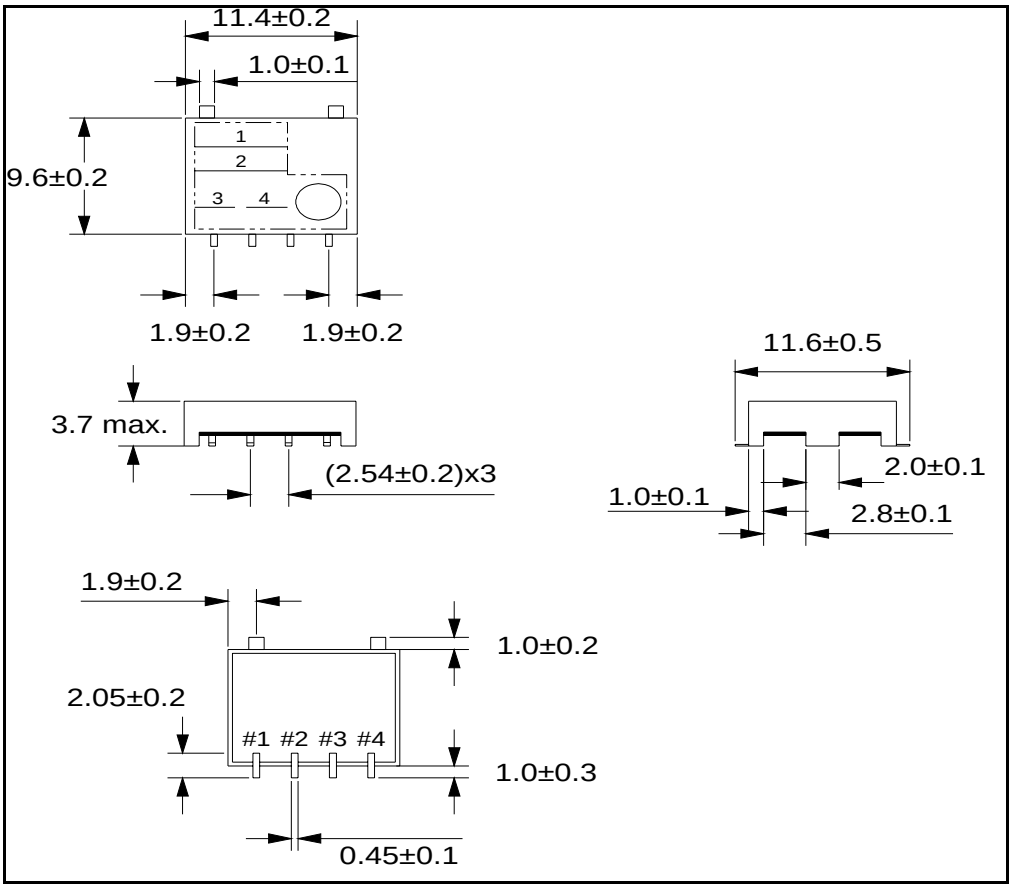
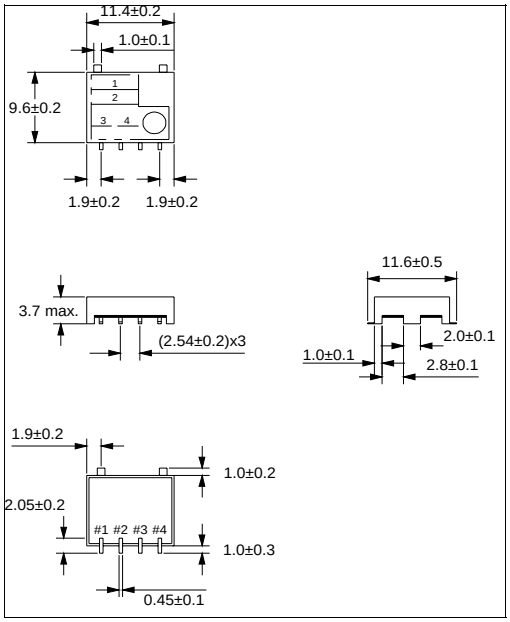


Enlarged View



Actual Size Shown Above
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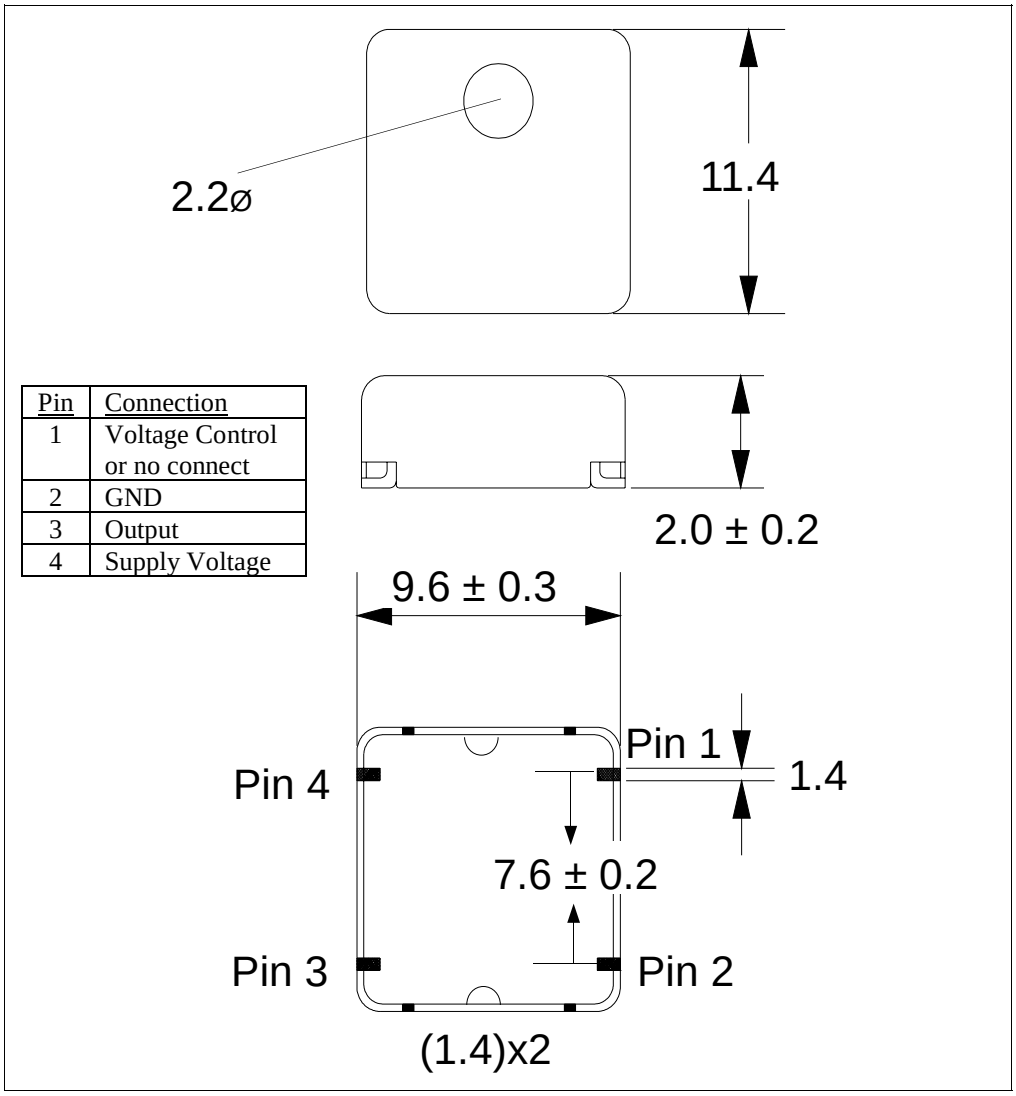
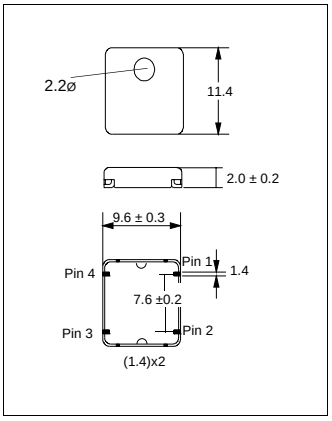
TCXO'S PACKAGE STYLE "G" WTL P/N: WTL8351G-12



Pin	Connection
1	Voltage Control or no connect
2	GND
3	Output
4	Supply Voltage

Enlarged View



Actual Size Shown Above
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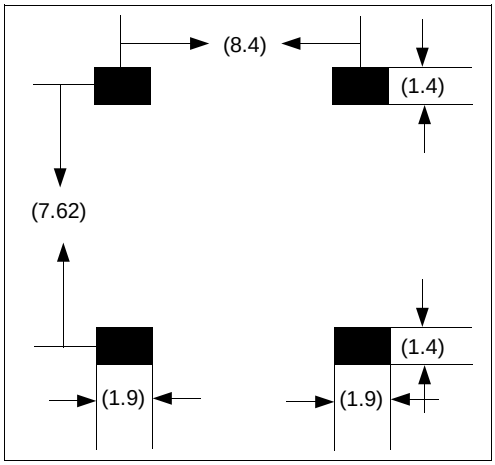
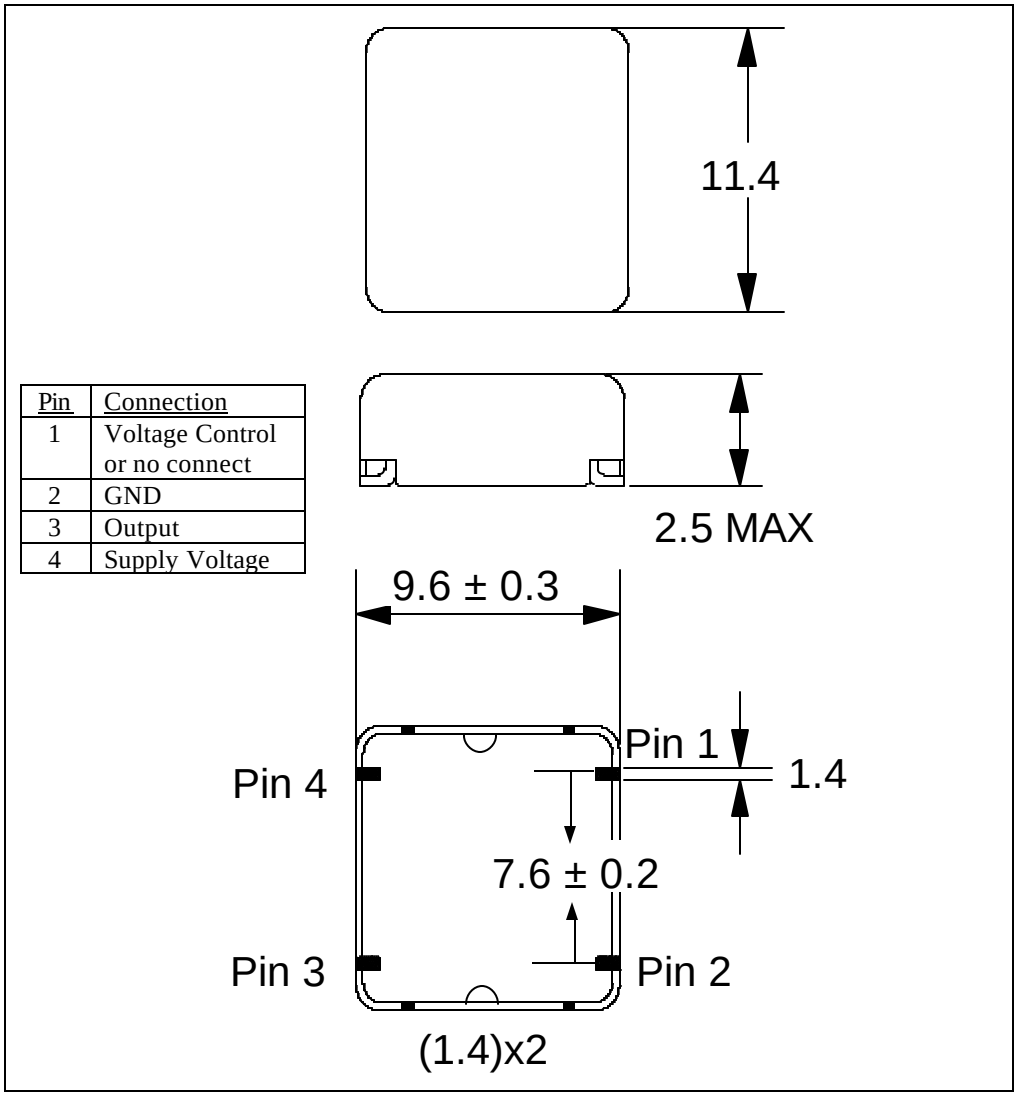
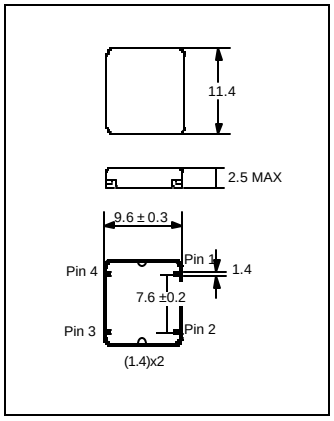


Dimensions in Millimeters (mm)



Pin	Connection
1	Voltage Control or no connect
2	GND
3	Output
4	Supply Voltage

Enlarged View



Actual Size Shown Above
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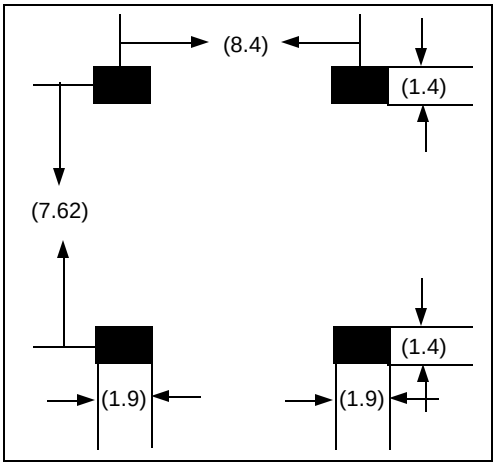

Dimensions in Millimeters (mm)