

**Features:**

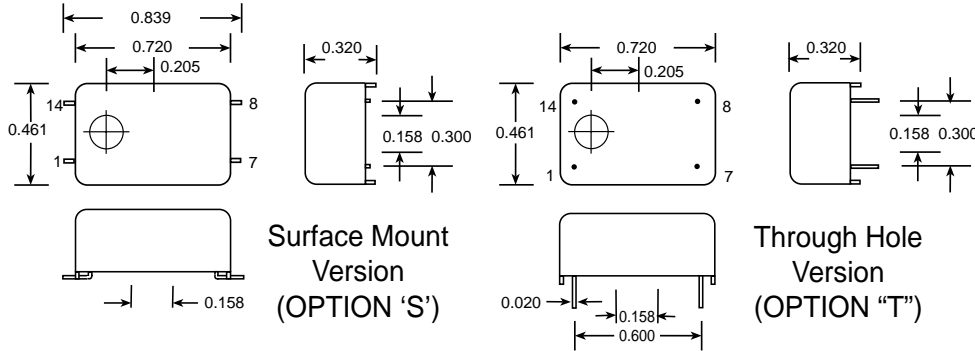
- Frequency Range 10 to 120 MHz
- Surface Mountable Option
- Low Power Consumption
- Optional Temperature Stabilities
- Low Cost
- Electrical Frequency Adjust



The CTS Reeves Model 535 is a low cost Temperature Compensated Crystal Oscillator with excellent temperature stabilities. The small package and low profile make it ideal for almost any application. The electrical frequency adjust makes calibration easy. The Model 535 is ideal for MW and radio applications

**Electrical Characteristics:**

NOMINAL FREQUENCY	10.0 MHz to 120.0 MHz
CALIBRATION TOLERANCE	settable to nominal with a 0V to +5V AFC
OPERATING TEMPERATURE	See chart 0° to 50°C to -40° to +85°C
FREQUENCY vs. AMBIENT	See chart ±.5 ppm to ±2 ppm
FREQUENCY vs. TIME	See chart 3 ppm/yr to .5 ppm/yr
POWER INPUT	25 ma (max)
OSCILLATOR VOLTAGE	See chart +5V or +12V
OUTPUT TYPE	Sine/HCMOS
LOAD	Sine - 50 Ohms; HCMOS - up to 50pF
ELECTRICAL FREQ. ADJUST (NEGATIVE SLOPE)	0 ±5V (Center Freq. 2.5V ±0.5V) ±5 ppm Typical



**Pin Connections**

PIN	FUNCTION
1	VCXO
7	GND.
8	OUTPUT
14	SUPPLY V

**Mechanical Specifications:**

**Case:**

CRS, nickel plated

**Leads:**

Nickel plated with solder coating

**Seal:**

Solder seal

**Solderability:**

95% solder coverage, using RMA flux 63  
Sn / 37 Pb solder at +245°C ±5°C

**Temperature:**

Operating: See chart  
Storage: -55° to 85°C

**Vibration:**

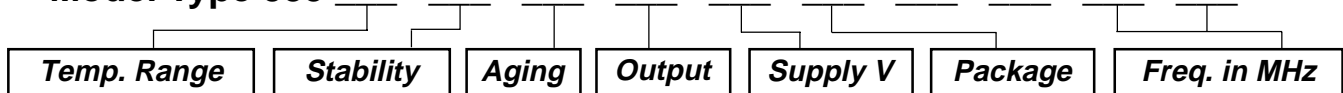
10 G's rms, 20 to 2000 Hz

**Mechanical Shock:**

50 G's 5ms pulse (3 shock/plane)

**Ordering Information:**

**Model Type 535**



Temp Stability		±5 x 10 <sup>-7</sup>	±1 x 10 <sup>-6</sup>	±2 x 10 <sup>-6</sup>
Temp Range	Code	A	B	C
0° to 50°C	A	X	X	X
0° to 70°C	B		X	X
-30° to 70°C	C		X	X
-40° to 85°	D			X

1 <sup>st</sup> Year Aging	Code
±3.0 ppm	A
±1.0 ppm	B
±0.5 ppm	C

Supply Volt	Code
+12V	A
+5V	B

Package	
T	Thru Hole
S	Surface Mount

Output	Code
HCMOS	H
Sinewave	S

\* Note: Not all options are available at all Frequencies.  
Temperature in °C    Stability in ppm