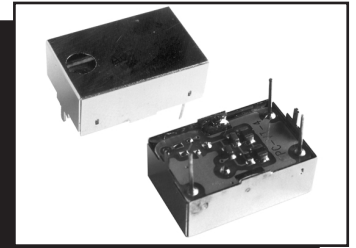


TEMPERATURE-COMPENSATED XTAL OSCILLATORS

ACTX 1018 and ACVTX 1018 Series



FEATURES:

- Compatible with 14 Pin Dual in Line.
- Compact Size.
- Tight Stability Available.
- Low Current Consumption.
- Control Voltage Function.
- Low can height option.

APPLICATIONS:

- Cellular and Cordless Phones.
- Facsimile and Computer Control.
- Car Telephones.
- Communication Equipment

STANDARD SPECIFICATIONS

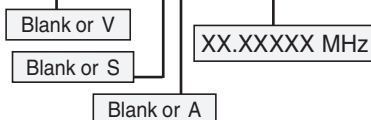
PARAMETERS	ACTX 1018 (A) ACVTX1018 (A)	ACTX 1018 S ACVTX1018S (A)
Frequency Range (F_o)	1 MHz - 26 MHz	8 MHz - 45 MHz
Operating Temperature (T_{OPR})	-10°C to +60°C (See Options / Table 1)	
Storage Temperature (T_{STO})	-40°C to +85°C	
Frequency Stability -vs- 25°C	± 0.5 ppm max	
-vs- Temperature	± 2.5 ppm max. (See Options / Table 1)	
-vs- Aging	± 1 ppm per year max.	
-vs- Supply Voltage	± 0.5 ppm max.	
Supply Voltage (V_{dd})	5 Vdc ± 5% or 3.3 Vdc ± 5% (A Series)	
Input Current (I_{dd})	20 mA max.	2 mA max. for $F \leq 26$ MHz 4 mA max. for $F > 26$ MHz
Duty Cycle or Symmetry	40 / 60% max.	N / A
Rise and Fall Times (T_R / T_F)	10 ns max.	N / A
Output Load	15 pF or 2 TTL	10 k Ω // 10 pF
Output Voltage (V_{OH})	0.9 * V_{dd} min.	1 Vpp min. Clipped Sine
(V_{OL})	0.4 Vdc max.	0.7 Vpp min. (A Series)
Frequency Adjustment (Internal Trimmer)	± 3 ppm min.	
Vc and Freq. Pulling (V Series)	0.5 V to 4.5 V or 0.3 V to 3.0 V (± 10 ppm min.)	

For test circuit, waveforms, please see page 67.

Environmental and mechanical specifications on page 68, Group 4. Marking, see p. 79.

ORDERING OPTIONS

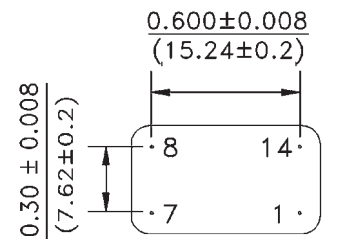
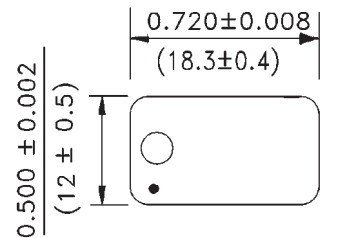
ACXTX1018XX - Frequency - Temperature & Frequency Stability - Max. Can Height



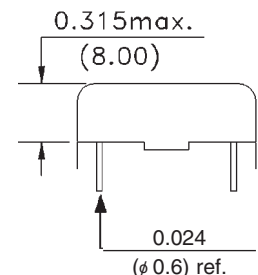
PIN #	FUNCTION
1	Vc or N/A
7	GND / Case
8	Output
14	V_{cc}

TABLE 1 Frequency -vs- Temperature							
TEMPERATURE RANGE °C	± 0.5 ppm max.	± 1 ppm max.	± 1.5 ppm max.	± 2 ppm max.	± 2.5 ppm max.	± 3 ppm max.	± 5 ppm max.
0°C to +50°C	C 05	C 10	C 15	C 20	C 25	C 30	C 50
-10°C to +60°C		D 10	D 15	D 20	Standard	D 30	D 50
-20°C to +70°C				E 20	E 25	E 30	E 50
-30°C to +75°C				F 20 (*)	F 25 (*)	F 30 (*)	F 50 (*)
-40°C to +85°C						G 30 (*)	G 50 (*)

(*) DEPENDING ON FREQUENCY



Dimensions: Inches (mm)



NOTE:

Pin 1 may be present with no connection function.