

5Vdc or 3.3Vdc • TTL / CMOS AND SINE WAVE

TEMPERATURE-COMPENSATED XTAL OSCILLATORS

ACTX 1018 and ACVTX 1018 Series



18.3 x 12 x 8.0 mm

FEATURES:

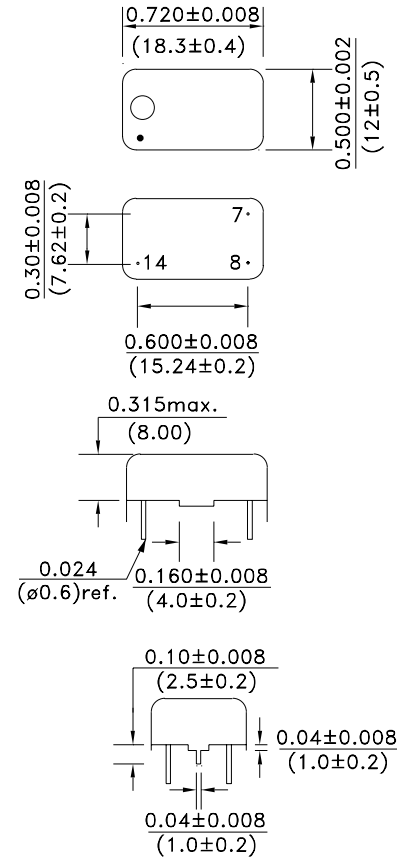
- Compatible with 14 pin dual in line.
- Compact size.
- Tight stability available.
- Low current consumption.
- Control voltage function.
- Low can height option.

APPLICATIONS:

- Cellular and cordless phones.
- Facsimile and computer control.
- Reference clock.
- Communication equipment.

STANDARD SPECIFICATIONS

PARAMETERS	ACTX 1018 (A) ACVTX1018 (A)	ACTX 1018S (A) ACVTX1018S (A)
Frequency Range (F ₀)	1MHz - 35MHz	8MHz - 45MHz
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	±0.5ppm max.	
-vs- Temperature	±2.5ppm max. (See Options / Table 1)	
-vs- Load (± 10%)	±0.2ppm max.	
-vs- Aging	±1ppm per year max.	
-vs- Supply Voltage (±5%)	±0.5ppm max.	
Supply Voltage (V _{DD})	5Vdc ±5% or 3.3Vdc ±5% (A Series)	
Input Current (I _{DD})	20mA max.	2mA max. for F ≤ 35 MHz 4mA max. for F > 35 MHz
Duty Cycle or Symmetry	40 / 60% max.	N / A
Rise and Fall Times (T _R / T _F)	10ns max.	N / A
Output Load	15pF or 10TTL	10k Ω // 10pF
Output Voltage (V _{OH})	0.9 *V _{DD} min.	1Vpp min. Clipped Sine
(V _{OL})	0.4V _{DC} max.	0.7Vpp min. (A Series)
Frequency Adjustment (Internal Trimmer)	±3ppm min.	
Vc and Freq. Pulling (V Series)	0.5V to 4.5V or 0.3V to 3.0V (±5ppm ~ ±20ppm)	



Dimensions: Inches (mm)

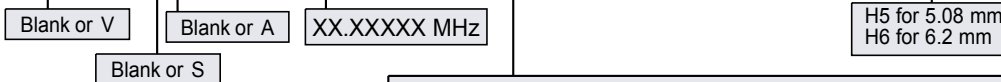
NOTES:

- Open slot may be present on cover for H5 or H6.
- Pin 1 may be present with no connection function.

* DEPENDING ON FREQUENCY

ORDERING OPTIONS

ACXTX 1018XX - Frequency - Temperature & Frequency Stability - Max. Can Height



PIN #	FUNCTION
1	Vc or NC
7	GND / Case
8	Output
14	V _{CC}

TEMPERATURE RANGE °C	±0.5ppm max.	±1ppm max.	±1.5ppm max.	±2ppm max.	±2.5ppm max.	±3ppm max.	±5ppm 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*

NOTE: Left blank if standard • All specifications and markings subject to change without notice

ABRACON IS
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