

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.
- Reference clock.
- Facsimile and computer control.
- 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	± 0.5 ppm max.	
-vs- Temperature	± 2.5 ppm max. (See Options / Table 1)	
-vs- Load ($\pm 10\%$)	± 0.2 ppm max.	
-vs- Aging	± 1 ppm per year max.	
-vs- Supply Voltage ($\pm 5\%$)	± 0.5 ppm max.	
Supply Voltage (V_{DD})	5Vdc $\pm 5\%$ or 3.3Vdc $\pm 5\%$ (A Series)	
Input Current (I_{DD})	20mA max.	2mA max. for $F \leq 35$ 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})	0.4Vdc max.	0.7Vpp min. (A Series)
Frequency Adjustment (Internal Trimmer)	± 3 ppm min.	
Vc and Freq. Pulling (V Series)	0.5V to 4.5V or 0.3V to 3.0V (± 5 ppm ~ ± 20 ppm)	

Test circuit, waveforms, see appendix B. Recommended handling, see appendix F.

Environmental and mechanical specifications, see appendix C. Group 4.

Marking, see appendix G. Application notes, see appendix A.

ORDERING OPTIONS

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

Blank or V	Blank or A	XX.XXXXX MHz	H5 for 5.08 mm H6 for 6.2 mm
Blank or S			

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

TABLE 1							
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 *

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

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

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