XSIS XE10 SERIES SURFACE-MOUNT LEADLESS CHIP CARRIER OSCILLATORS

T-50-23

XSIS has developed another advanced design micro-circuit oscillator in a leadless chip carrier with features significantly superior to any presently available.

- Calibration accuracy of ± .0015% @ + 25°C.
- Frequency stability-vs-temperature of ± .005% over -55°C to + 125°C.
- Frequency aging @ + 25°C of ± .0005% per year.
- Lowered input current.
- Unique, rugged design for high shock and vibration environs.
- A resistance welded hermetically sealed package for utmost long term reliability.
- QPL to M 55310/19

FREQUENCY RANGE	500 KHZ TO 25.0 MHZ
FREQUENCY ACCURACY @ 25°C	± 0.0015%
FREQUENCY STABILITY VS. TEMPERATURE	SEE TABLE BELOW
OPERATING TEMPERATURE RANGE	
STORAGE TEMPERATURE	-55°C to +125°C
INPUT VOLTAGE	+5VDC ± 10%
OUTPUT	TTL (10 LOADS)
SYMMETRY	60-40% @ 1.4 VDC LEVEL
RISE & FALL TIMES	500 KHZ-15.0 MHZ 15nS MAX. 15.0 MHZ-25.0 MHZ 5nS MAX.
'0' LEVEL (16MA SINK CURRENT)	500 KHZ-15.0 MHZ 0.4VDC MAX. 15.0 MHZ-25.0 MHZ 0.5VDC MAX.
'1' LEVEL (400 MA SOURCE CURRENT)	500 KHZ-15.0 MHZ 2.4VDC MIN. 15.0 MHZ-25.0 MHZ 2.5VDC MIN.
INPUT CURRENT (@ 5.0 VDC)	500 KHZ-15.0 MHZ 60mA MAX. 15.0 MHZ-25.0 MHZ 30mA MAX.
AGING @ 25°C	5PPM/YR MAX.
FREQUENCY STABILITY VS. INPUT VOLTAGE	± 5PPM Max. for 10% change in INPUT VOLTAGE

PART NUMBERING CODE, FREQUENCY STABILITY & OPERATING TEMP. OPTIONS

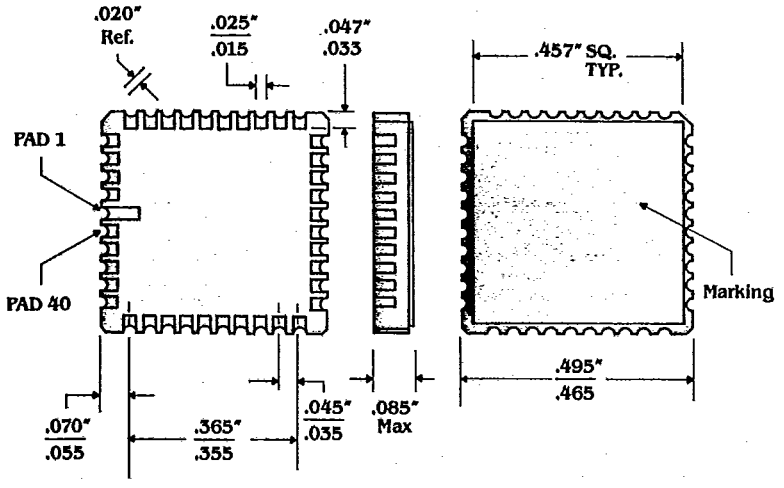
XE10- ① ○ ○ @ FREQUENCY

① = TTL COMPATIBLE

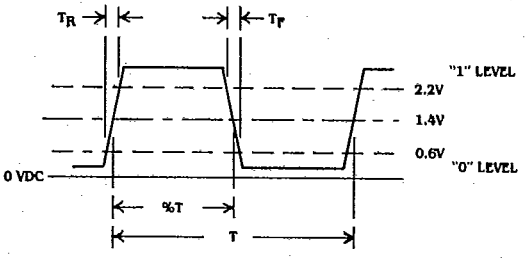
○ (Frequency Stability):
1 = ± 0.1%
2 = ± 0.05%
3 = ± 0.01%
4 = ± 0.005%
5 = ± 0.002%*

*not available for -55°C to +125°C

○ (Operating Temp.):
1 = 0°C to +70°C
2 = -30°C to +85°C
3 = -55°C to +125°C



PAD	FUNCTION
4 & 10	B+
31 & 37	GND
39	OUTPUT
ALL OTHERS	N/C



TTL WAVEFORM