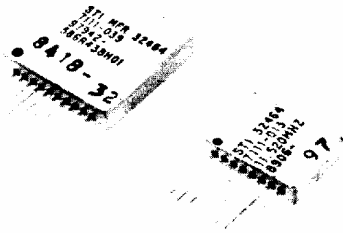


SUBMINIATURE HYBRID CRYSTAL OSCILLATORS

FLAT PACK

SERIES: 7111 TTL/ 4111 CMOS
7121 TTL/ 4121 CMOS



FEATURES:

- High Reliability
- Minimum Size
- Surface Mountable
- Hermetically Sealed
- Any Frequency 3.5 Hz to 65 MHz

OPTIONS:

- Screening per MIL-STD-883 Class B or MIL-O-55310 Class B when specified (Class S also available).
- Alternative Package Heights
- Alternative Configurations
- Package Heights as low as 0.100"

DESCRIPTION AND APPLICATIONS:

Series 7111/4111 are produced with thick film hybrid circuits and integrally mounted crystals in hermetically sealed packages. This proven design provides a mechanically rugged package for high reliability, low aging applications in military, aerospace, and Hi-Rel commercial systems. Screening to the requirements of either MIL-STD-883 OR MIL-O-55310 is available.

Prices range from approximately \$45.00 to \$200.00 depending on frequency, specified temperature range, and quantity.

SPECIFICATIONS:

TTL:	Supply Voltage:	+5 Vdc @ 10 to 50 mA depending on frequency.
OUTPUT:	Frequency:	20 Lead - 28 Hz to 65 MHz 16 Lead - 39 kHz to 65 MHz
	Logic 0/1:	+0.5 V max./+2.4 V min. 10 TTL Loads
CMOS:	Supply Voltage:	+5 to +15 Vdc @ 2 to 15 mA Depending on frequency and supply voltage which must be specified.
OUTPUT:	Frequency:	20 Lead - 3.5 Hz to 15 MHz 16 Lead - 62 kHz to 15 MHz
	Logic 0/1:	0.1 VDD max. / 0.9 VDD min.

FUNCTION	7111/4111 16 LEAD		7121/4121 20 LEAD
	STD PIN	OPTIONAL PIN	STD PIN
Common (case)	9	8	10
Output	10	9	11
Supply	8	16	13, 20

Note: Other pins may be internally connected and are not to be used as external tie points..

ACCURACY AND STABILITY OPTIONS:

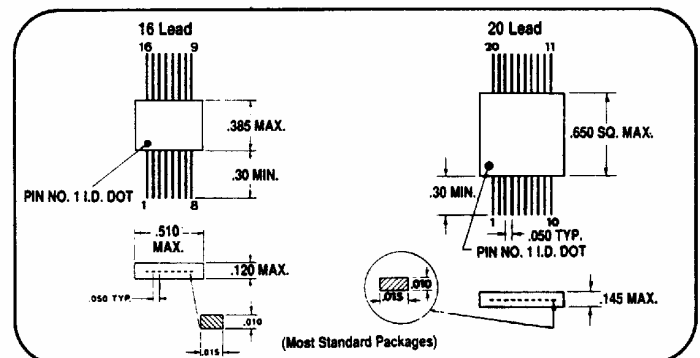
Any of the following standard temperature ranges and accuracy/stability "Mix & Match" combinations are available.

TEMP RANGES:	STANDARD STABILITIES
0 to +70°C	±0.1% (1000 ppm)
-40 to +85°C	±0.05% (500 ppm)
-55 to +105°C	±0.01% (100 ppm)
-55 to +125°C	±0.005% (50 ppm)

Other stabilities and temperature ranges are available for special applications.

SPECIAL MODEL NUMBER DESIGNATION:

For specific applications a three digit dash number (suffix) is added to the Series number to provide a complete model number designation. This is assigned for convenience in ordering and is maintained as a unique cross reference designation to a specific customer part or specification number.



Specifications subject to change without notice.