

T-50-23

Military Hybrid Clock Oscillators

CTS Knights is a Qualified Products List (QPL) supplier for MIL-O-55310/8, 10, 14, 16, 17, 18, 19
 14-pin dual-in-line package
 TTL logic output
 Frequencies from 50 Hz to 60 MHz
 Class B screening

PIN CONNECTIONS

In accordance with appropriate slash sheet

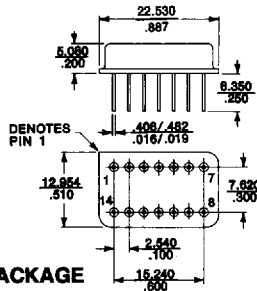


FIG. 16 MILITARY PACKAGE

CTS Knights also supplies product equivalent to the following MIL-O-55310 specification with qualification anticipated soon:

SPECIFICATION	TYPE
M55310/9	TTL, TO-5
M55310/11	CMOS, 14-pin DIP
M55310/15	CMOS, 14-pin DIP
M55310/20	TTL, 44-pin LCC

M55310/16 SERIES

ORDERING INFORMATION

M55310/16-

-(EXACT FREQUENCY)

SCREENING	
CODE	CLASS
B	CLASS B

FREQUENCY RANGE	
CODE	FREQUENCY
0	50 Hz to <250 Hz
1	250 Hz to <150 KHz
2	150 KHz to <5.0 MHz
3	4.0 MHz to <20 MHz
4	20 MHz to 60MHz

TOLERANCE (PPM)				
CODE	TEMP. RANGE	FREQ. ACCURACY @ 23°C	FREQ. STABILITY VS TEMP.	AGING (PER YEAR)
1A	-55°/125°C	15 ppm	50	5 ppm
1B	-55°/105°C		40	
1C	-20°/70°C		25	
4A	-55°/125°C	25 ppm	100	10 ppm
4B	-55°/105°C		80	
4C	-20°/70°C		50	

M55310/08 SERIES

ORDERING INFORMATION

M55310/08-

-(EXACT FREQUENCY)

SCREENING	
CODE	CLASS
B	CLASS B

FREQUENCY RANGE		AGING (PER YEAR)
CODE	FREQUENCY	
01	1.0 KHz to <150.0 KHz	5ppm
02	150.0 KHz to <300.0 KHz	
03	300.0 KHz to <600.0 KHz	
04	600.0 KHz to <2.5 MHz	
05	2.5 MHz to <5.0 MHz	
06	5.0 MHz to <10.0 MHz	10ppm
07	10.0 MHz to <20.0 MHz	
08	20.0 MHz to <30.0 MHz	
09	30.0 MHz to <50.0 MHz	
10	50.0 Hz to <1.0 KHz	

TOLERANCE (PPM)			
CODE	TEMP. RANGE	FREQ. ACCURACY @ 23°C	FREQ. STABILITY VS TEMP.
A	-55 to +125°C	15 ppm (TYP)	± 50ppm
B	-55 to +105°C		± 40ppm
C	-20 to +70°C		± 25ppm

M55310/14 SERIES

ORDERING INFORMATION

M55310/14-

-(EXACT FREQUENCY)

SCREENING	
CODE	CLASS
B	CLASS B

FREQUENCY RANGE	
CODE	FREQUENCY
01	50 Hz to <1.0 KHz
02	1.0 KHz to <150.0 KHz
03	150.0 KHz to <300.0 KHz
04	300.0 KHz to <600.0 KHz
05	600.0 KHz to <2.5 MHz
06	2.5 MHz to <5.0 MHz
07	5.0 MHz to <10.0 MHz
08	10.0 MHz to <15.0 MHz
09	15.0 MHz to ≤25.0 MHz

TOLERANCE (PPM)				
CODE	TEMP. RANGE	FREQ. ACCURACY @ 23°C	FREQ. STABILITY VS TEMP.	AGING (PER YEAR)
A	-55 to +125°C	15 ppm	± 50 ppm	5 ppm
B	-55 to +105°C		± 40 ppm	
C	-20 to +70°C		± 25 ppm	

M55310/17 SERIES

ORDERING INFORMATION

M55310/17-

-(EXACT FREQUENCY)

SCREENING	
CODE	CLASS
B	CLASS B

FREQUENCY RANGE	
CODE	FREQUENCY
0	250.0 KHz to <5.0 MHz
1	4.0 MHz to <20.0 MHz
2	20.0 MHz to ≤50.0 MHz

TOLERANCE (PPM)				
CODE	TEMP. RANGE	FREQ. ACCURACY @ 23°C	FREQ. STABILITY VS TEMP.	AGING (PER YEAR)
1A	-55°/125°C	15 ppm*	40	5 ppm
1B	-55°/105°C		25	
1C	-20°/70°C		100	
4A,BorC	as above	25 ppm	100	10 ppm

NOTE:
 ■ **HIGH RELIABILITY SCREENING**— All hybrid oscillators, at your option, can be screened similar to the Class B requirements of MIL-O-55310. To request this option, add "MLB" after the part number (e.g. MXO-55GA-2C-16.0 MHz-MLB).

*01 is 10 ppm