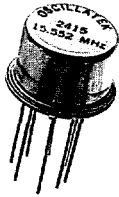


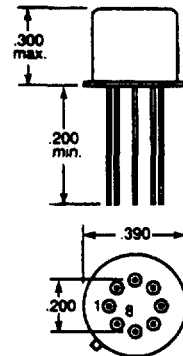
QPL Clock Oscillators

M55310/09



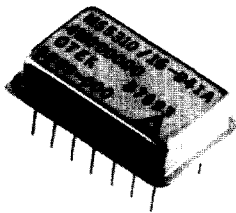
Features

- QPL DESC approved for a variety of class B devices.
- Frequency range from 400 kHz to 30 MHz
- TTL



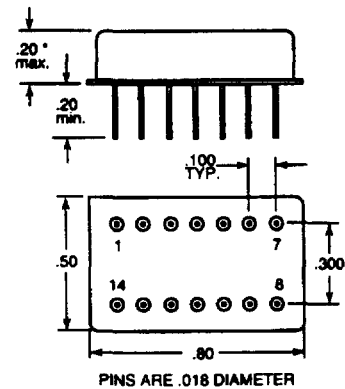
Note: dimensions in inches

M55310/14 M55310/16 M55310/17



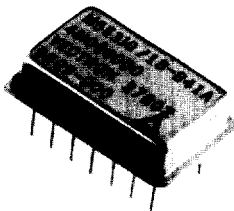
Features

- QPL DESC approved for a variety of class B and class S devices.
- Frequency range from 0.1 Hz to 60 MHz
- TTL



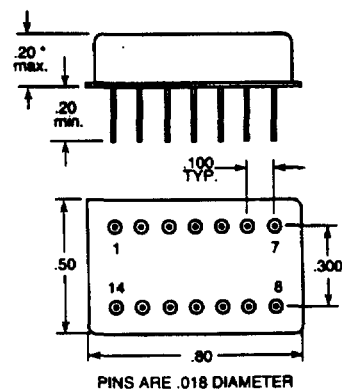
Note: dimensions in inches

M55310/18 M55310/25 M55310/26



Features

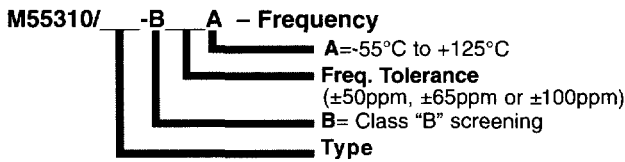
- QPL DESC approved for a variety of class B devices.
- Frequency range from 250 Hz to 175 MHz
- HCMOS and ECL outputs



Note: dimensions in inches

QPL Clock Oscillators

QPL Part Numbering



VI provides QPL parts with 100% Class "B" screening:

- | | |
|-------------------------|----------------------------------|
| 1 Internal Visual | 5 Seal Test |
| 2 Stabilization Bake | 6 Electrical Test at +23°C |
| 3 Temperature Cycling | 7 160 Hour Burn-in Load |
| 4 Constant Acceleration | 8 Electrical Test vs Temperature |

Consult factory for test details and current DESC specifications.

Specifications

VI is an approved source of MIL-O-55310 hybrid oscillators and is currently qualified to the following "slash" numbers:

Type	Output	Package
M55310/09	TTL	TO-5
M55310/14	TTL	14 pin DIP
M55310/16	TTL	14 pin DIP
M55310/17	TTL	14 pin DIP
M55310/18	CMOS	14 pin DIP
M55310/25	ECL	4/14 pin DIP
M55310/26	HCMOS	4/14 pin DIP

The current issue of the appropriate military slash sheet should be consulted for further information on QPL products. Data on the current issue of the slash sheet may supercede data on this page.

Type	Frequency Range	Freq. Tolerance ppm		Pinouts			
		±50	±100	+5V	Gnd	Out	Gate
09	400 KHz - 9 MHz	01	05	8	4	5	na
09	9 MHz - 25 MHz	11	15	8	4	5	na
09	25 MHz - 30 MHz	21	25	8	4	5	na
14	0.1 Hz - 1 KHz	01	na	4	7	5	na
14	1 KHz - 150 KHz	02	na	4	7	5	na
14	150 KHz - 300 KHz	03	na	4	7	5	na
14	300 KHz - 600 KHz	04	na	4	7	5	na
14	600 KHz - 2.5 MHz	05	na	4	7	5	na
14	2.5 MHz - 5.0 MHz	06	na	4	7	5	na
14	5.0 MHz - 10 MHz	07	na	4	7	5	na
14	10 MHz - 15 MHz	08	na	4	7	5	na
14	15 MHz - 25 MHz	09	na	4	7	5	na
16	0.1 Hz - 250 Hz	01	04	14	7	8	na
16	250 Hz - 150 KHz	11	14	14	7	8	na
16	159 KHz - 5.0 MHz	21	24	14	7	8	na
16	4.0 MHz - 20 MHz	31	34	14	7	8	na
16	20 MHz - 60 MHz	41	44	14	7	8	na
17	250 KHz - 5 MHz	01	04	14	7	8	pin 9
17	4.0 MHz - 20 MHz	11	14	14	7	8	pin 9
17	20 MHz - 50 MHz	21	24	14	7	8	pin 9

Type	Frequency Range	Freq. Tolerance ppm			Pinouts			
		±50	±65	±100	Vcc	Gnd	Out	Gate
18	250 Hz - 8 MHz	01	—	02	14	7	8	na
18	250 Hz - 8 MHz	11	—	12	14	7	8	na
18	250 Hz - 8 MHz	21	—	22	14	7	8	na
18	250 Hz - 8 MHz	31	—	32	14	7	8	na
18	250 Hz - 5 MHz	41	—	42	14	7	8	na
25	25 MHz - 100 MHz	—	02, 03, 06, 07	10, 11, 14, 15	7	14	8	na
25	100 MHz - 125 MHz	—	32, 33, 36, 37	40, 41, 44, 45	7	14	8	na
25	125 MHz - 175 MHz	—	62, 63, 66, 67	70, 71, 74, 75	7	14	8	na
26	0.01 MHz - 1 MHz	—	02, 03	06, 07	14	7	8	na
26	1 MHz - 4 MHz	—	22, 23	26, 27	14	7	8	na
26	4 MHz - 20 MHz	—	32, 33	36, 37	14	7	8	na
26	20 MHz - 35 MHz	—	42, 43	46, 47	14	7	8	na
26	35 MHz - 50 MHz	—	52, 53	56, 57	14	7	8	na
26	50 MHz - 65 MHz	—	62, 63	66, 67	14	7	8	na

The above table is a summary of the -55°C to +125°C options offered by VI. Other temperature ranges and stabilities may be available. Stability tolerance is based on the +23°C calibration tolerance of ±15 PPM for ±50PPM vs Temperature.