

# Precision Devices Inc.

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## QPL CRYSTALS & OSCILLATORS GENERAL SPECIFICATIONS

### MIL-0-55310 CRYSTAL OSCILLATORS QUALIFIED LIST

SLASH NUMBER	FREQUENCY RANGE	TEMP RANGE	PACKAGE STYLE	DESIGN
MIL-0-55310/8	750 KHz – 50 MHz	-55 to 125	14 PIN DIP	TTL
MIL-0-55310/14	750 KHz – 25 MHz	-55 to 125	14 PIN DIP	TTL
MIL-0-55310/16	750 KHz – 60 MHz	-55 to 125	14 PIN DIP	TTL
MIL-0-55310/17	12 MHz – 50 MHz	-55 to 125	14 PIN DIP	TTL
MIL-0-55310/18	450 KHz – 15 MHz	-55 to 125	14 PIN DIP	CMOS
MIL-0-55310/25	25 MHz – 60 MHz	-55 to 125	14 PIN DIP	E-Coupled Logic
MIL-0-55310/26	750 KHz – 60 MHz	-55 to 125	14 PIN DIP	HCMOS

### MIL-0-55310 CRYSTAL OSCILLATORS PENDING APPROVAL

SLASH NUMBER	FREQUENCY RANGE	TEMP RANGE	PACKAGE STYLE	DESIGN
MIL-0-55310/9	400 KHz – 60 MHz	-55 to 125	8 PIN DIP	TTL
MIL-0-55310/10	1 KHz – 60 MHz	-55 to 125	8 PIN DIP	TTL
MIL-0-55310/11	0.05 MHz – 10 MHz	-55 to 125	14 PIN DIP	CMOS
MIL-0-55310/12	0.05 MHz – 10 MHz	-55 to 125	8 PIN DIP	CMOS
MIL-0-55310/13	300 Hz – 10 MHz	-55 to 125	8 PIN DIP	CMOS
MIL-0-55310/15	0.1 Hz – 10 MHz	-55 to 125	14 PIN DIP	CMOS
MIL-0-55310/19	1.0 MHz – 60.0 MHz	-55 to 125	40 PIN SMD	TTL
MIL-0-55310/20	40 KHz – 60 MHz	-55 to 125	42 PIN SMD	TTL
MIL-0-55310/21	1.0 MHz – 60.0 MHz	-55 to 125	20 PIN DIP	TTL
MIL-0-55310/29	0.2 MHz – 85 MHz	-55 to 125	40 PIN SMD	HCMOS
MIL-0-55310/30	1.544 MHz – 125 MHz	-55 to 125	14X9 SMD J LEAD	CMOS
MIL-0-55310/	750 KHz – 200 MHz	-55 to 125	9X7 SMD J LEAD	ACMOS

### MIL-C-3098 CRYSTALS QUALIFIED LIST

SLASH NUMBER	FREQUENCY	TEMP RANGE	PACKAGE	MODE OF OSCILLATION
MIL-PRF-3098/38	5 MHz – 20 MHz	-55 to 105	HC49/u	Fundamental
MIL-PRF-3098/42	2.4 MHz – 20 MHz	-55 to 105	HC49/u	Fundamental
MIL-PRF-3098/47	2.9 MHz – 25 MHz	-55 to 105	HC49/u	Fundamental
MIL-PRF-3098/62	2.2 MHz – 20 MHz	-55 to 105	HC25/u	Fundamental
MIL-PRF-3098/63	2.9 MHz – 20 MHz	-55 to 105	HC25/u	Fundamental
MIL-PRF-3098/72	8 MHz – 10 MHz	-40 to 85	HC49/u	Fundamental
MIL-PRF-3098/82	10.5 MHz – 11.5 MHz	-55 to 105	HC49/u	Fundamental
MIL-PRF-3098/118	20 MHz – 22 MHz	-55 to 105	HC49/u	Fundamental

### MIL-0-55310 CRYSTALS PENDING APPROVAL


SLASH NUMBER	FREQUENCY	TEMP RANGE	PACKAGE	MODE OF OSCILLATION
MIL-PRF-3098/3	0.8 MHz – 20 MHz	-55 TO 105	HC6/u	Fundamental
MIL-PRF-3098/4	0.8 MHz – 20 MHz	-55 to 105	HC6/u	Fundamental
MIL-PRF-3098/9	0.8 MHz – 20 MHz	-55 to 90	HC6/u	Fundamental
MIL-PRF-3098/10	0.8 MHz – 20 MHz	-55 to 90	HC6/u	Fundamental
MIL-PRF-3098/15	0.8 MHz – 20 MHz	-55 to 90	HC6/u	Fundamental
MIL-PRF-3098/16	0.8 MHz – 20 MHz	-55 to 90	HC6/u	Fundamental
MIL-PRF-3098/36	0.8 MHz – 20 MHz	-55 to 105	HC6/u	Fundamental
MIL-PRF-3098/40	0.8 MHz – 20 MHz	-55 to 90	HC6/u	Fundamental
MIL-PRF-3098/56	0.8 MHz – 20 MHz	-40 to 90	HC6/u	Fundamental
MIL-PRF-3098/67	2.12 MHz – 6.2 MHz	-55 to 90	HC12/u	Fundamental
MIL-PRF-3098/77	2 MHz – 10 MHz	-55 to 90	HC6/u	Fundamental
MIL-PRF-3098/78	2 MHz – 10 MHz	-40 to 70	HC6/u	Fundamental
MIL-PRF-3098/102	1.85 MHz – 3.05 MHz	-55 to 105	HC6/u	Fundamental
MIL-PRF-3098/109	0.8 MHz to 20 MHz	-55 to 105	HC6/u	Fundamental
MIL-PRF-3098/111	1 MHz to 10 MHz	-40 to 70	HC6/u	Fundamental
MIL-PRF-3098/120	0.8 MHz – 20 MHz	-55 to 90	HC6/u	Fundamental
MIL-PRF-3098/137	0.8 MHz – 20 MHz	-55 to 105	HC33/u	Fundamental

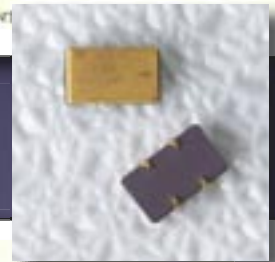
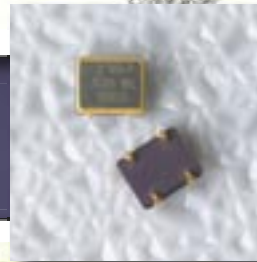
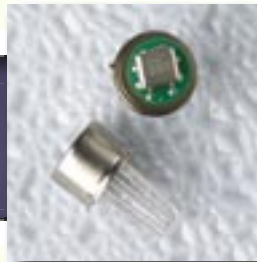


**MIL-PRF-38534**  
**HYBRID MICROCIRCUIT CERTIFICATION**  
 FOR  
 CLASS H  
 IS HEREBY AWARDED TO

**PRECISION DEVICES INC.**  
 8840 N. Greenview Dr.  
 Middleton, WI 53562

IN ACCORDANCE WITH MIL-PRF-38534, HYBRID ASSEMBLY OPERATIONS AND MIL-STD-883 TESTING SHALL BE PERFORMED AT THE ABOVE FACILITY. THIS CERTIFICATION IS ISSUED IN CONJUNCTION WITH DSCC LETTER VQ (VQ11-03-003576) AND IS VALID UNTIL TERMINATED BY WRITTEN NOTIFICATION FROM DSCC.

  
 ALAN S. THOMPSON  
 Rear Admiral, SC, USN  
 Commander



**MIL-STD-790**  
**PRODUCT ASSURANCE PROGRAM**  
**CERTIFICATION**  
 IS HEREBY AWARDED TO

**PRECISION DEVICES, INCORPORATED**  
 8840 North Greenview Drive  
 Middleton, WI 53562-0155

THIS CERTIFICATION IS VALID UNTIL TERMINATED BY WRITTEN NOTIFICATION FROM DSCC. REFERENCE DSCC LETTER VQ (VQP-03-003743) FOR DETAILS PERTAINING TO THIS CERTIFICATION.

  
 ALAN S. THOMPSON  
 Rear Admiral, SC, USN  
 Commander  
 DEFENSE SUPPLY CENTER, COLUMBUS