

Specification Details:

Specification: MIL-PRF-3098

Title: General Specification For Crystal Units, Quartz

Federal Supply Class (FSC): 5955

Conventional: Yes

Specification contains quality assurance program: No

MIL-STD-790 Established Reliability High Reliability: Yes

MIL-STD-690 Failure Rate Sampling Plans Procedures: No

Weibull Graded: No

Specification contains space level reliability requirements: Yes

Specification allows test optimization: No

Contact Information:

Office of Primary Involvement: Custom Devices Branch, DLA Weapons Support - VQC

Primary Qualifying Activity Contact: 614-693-6906, e-mail: vqc.pp@dla.mil

Secondary Qualifying Activity Contact: 614-693-0176, e-mail: vqc.ksy@dla.mil

Notes:

Part Configuration:		CR18/U1M0000000		
Component	Number (Crystal Type)	Product Level	Basic Indicator	Specified Frequency
CR	18	Blank	/U	1M0000000

Part Configuration:		CR19S/U3M0000001		
Component	Number (Crystal Type)	Product Level	Basic Indicator	Specified Frequency
CR	19	Space	/U	3M0000001

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CR18B/U 2.25MHz thru 20MHz	CR18B/U 2.25MHz thru 20MHz	3098-3829-13	/3	Precision Devices, Inc. (PDI)
CR19B/U 2.25MHz thru 20MHz	CR19B/U 2.25MHz thru 20MHz	3098-3829-13	/4	Precision Devices, Inc. (PDI)
CR27B/U 2.25MHz thru 20MHz	CR27B/U 2.25MHz thru 20MHz	3098-3829-13	/9	Precision Devices, Inc. (PDI)
CR28B/U 2.25MHz thru 20MHz	CR28B/U 2.25MHz thru 20MHz	3098-3829-13	/10	Precision Devices, Inc. (PDI)
CR35B/U 2.25MHz thru 20MHz	CR35B/U 2.25MHz thru 20MHz	3098-3829-13	/15	Precision Devices, Inc. (PDI)
CR36B/U 2.25MHz thru 20MHz	CR36B/U 2.25MHz thru 20MHz	3098-3829-13	/16	Precision Devices Inc.
CR55B/U 24MHz thru 62MHz	CR55B/U 24MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/33	Croven Crystals
CR55B/U 16MHz thru 61MHz	CR55B/U 16MHz thru 61MHz	3098-3829-13	/33	Precision Devices, Inc. (PDI)
CR55B/U 17MHz thru 61MHz	CR55B/U 17MHz thru 61MHz	3098-4378-15	/33	Xsis Electronics, Inc.
CR56B/U 50MHz thru 125MHz	CR56B/U 50MHz thru 125MHz	QA-180/D3, 28 Jan 1969	/34	Croven Crystals
CR59B/U 50MHz thru 125MHz	CR59B/U 50MHz thru 125MHz	QA-559/LS3, 8 Jul 1968	/37	Croven Crystals

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CR60B/U 5MHz thru 20MHz	CR60B/U 5MHz thru 20MHz	QA-690/E2, 2 Dec 1971	/38	Croven Crystals
CR60B/U 5MHz thru 20MHz	CR60B/U 5MHz thru 20MHz	3098-572-03	/38	Precision Devices, Inc. (PDI)
CR60B/U 5MHz thru 20MHz	CR60B/U 5MHz thru 20MHz	3098-4378-15	/38	Xsis Electronics, Inc.
CR61B/U 24MHz thru 61MHz	CR61B/U 24MHz thru 61MHz	QA-277/LD3, 4 Jan 1968	/39	Croven Crystals
CR61B/U 16MHz thru 61MHz	CR61B/U 16MHz thru 61MHz	3098-3829-13	/39	Precision Devices, Inc. (PDI)
CR62B/U 2.25MHz thru 20MHz	CR62B/U 2.25MHz thru 20MHz	3098-3829-13	/40	Precision Devices, Inc. (PDI)
CR64B/U 2.9MHz thru 20MHz	CR64B/U 2.9MHz thru 20MHz	3098-587-03; QA-690/E2, 2 Dec 1971	/42	Croven Crystals
CR64B/U 2.4MHz thru 20MHz	CR64B/U 2.4MHz thru 20MHz	3098-572-03	/42	Precision Devices, Inc. (PDI)
CR64B/U 2.9MHz thru 25MHz	CR64B/U 2.9MHz thru 25MHz	3098-4378-15	/42	Xsis Electronics, Inc.
CR67B/U 24MHz thru 62MHz	CR67B/U 24MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/45	Croven Crystals
CR67B/U 16MHz thru 61MHz	CR67B/U 16MHz thru 61MHz	3098-3829-13	/45	Precision Devices, Inc. (PDI)
CR67B/U 16MHz thru 61MHz	CR67B/U 16MHz thru 61MHz	3098-4378-15	/45	Xsis Electronics, Inc.
CR69B/U 2.9MHz thru 25MHz	CR69B/U 2.9MHz thru 25MHz	QA-690/E2, 2 Dec 1971	/47	Croven Crystals
CR69B/U 2.9MHz thru 25MHz	CR69B/U 2.9MHz thru 25MHz	3098-572-03	/47	Precision Devices, Inc. (PDI)
CR69B/U 2.9MHz thru 25MHz	CR69B/U 2.9MHz thru 25MHz	3098-4378-15	/47	Xsis Electronics, Inc.
CR72B/U 24MHz thru 61MHz	CR72B/U 24MHz thru 61MHz	QA-277/LD3, 4 Jan 1968	/50	Croven Crystals
CR72B/U 16MHz thru 61MHz	CR72B/U 16MHz thru 61MHz	3098-3829-13	/50	Precision Devices, Inc. (PDI)
CR72B/U 17MHz thru 61MHz	CR72B/U 17MHz thru 61MHz	3098-4378-15	/50	Xsis Electronics, Inc.
CR76B/U 24MHz thru 61MHz	CR76B/U 24MHz thru 61MHz	QA-277/LD3, 4 Jan 1968	/53	Croven Crystals
CR76B/U 16MHz thru 61MHz	CR76B/U 16MHz thru 61MHz	3098-3829-13	/53	Precision Devices, Inc. (PDI)
CR76B/U 16MHz thru 61MHz	CR76B/U 16MHz thru 61MHz	3098-4378-15	/53	Xsis Electronics, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CR77B/U 24MHz thru 62MHz	CR77B/U 24MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/55	Croven Crystals
CR77B/U 16MHz thru 61MHz	CR77B/U 16MHz thru 61MHz	3098-3829-13	/55	Precision Devices Inc.
CR77B/U 16MHz thru 61MHz	CR77B/U 16MHz thru 61MHz	3098-4378-15	/55	Xsis Electronics, Inc.
CR78B/U 2.9MHz thru 20MHz	CR78B/U 2.9MHz thru 20MHz	QA-690/E2, 2 Dec 1971	/62	Croven Crystals
CR78B/U 2.2MHz thru 20MHz	CR78B/U 2.2MHz thru 20MHz	3098-572-03	/62	Precision Devices Inc.
CR78B/U 2.9MHz thru 25MHz	CR78B/U 2.9MHz thru 25MHz	3098-4378-15	/62	Xsis Electronics, Inc.
CR79B/U 2.9MHz thru 20MHz	CR79B/U 2.9MHz thru 20MHz	QA-690/E2, 2 Dec 1971	/63	Croven Crystals
CR79B/U 2.9MHz thru 20MHz	CR79B/U 2.9MHz thru 20MHz	3098-572-03	/63	Precision Devices, Inc. (PDI)
CR79B/U 2.9MHz thru 20MHz	CR79B/U 2.9MHz thru 20MHz	3098-4378-15	/63	Xsis Electronics, Inc.
CR80B/U 50MHz thru 125MHz	CR80B/U 50MHz thru 125MHz	QA-180/D3, 28 Jan 1969	/57	Croven Crystals
CR81B/U 24MHz thru 62MHz	CR81B/U 24MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/58	Croven Crystals
CR81B/U 16MHz thru 61MHz	CR81B/U 16MHz thru 61MHz	3098-3829-13	/58	Precision Devices, Inc. (PDI)
CR81B/U 17MHz thru 61MHz	CR81B/U 17MHz thru 61MHz	3098-4378-15	/58	Xsis Electronics, Inc.
CR82B/U 50MHz thru 125MHz	CR82B/U 50MHz thru 125MHz	QA-180/D3, 28 Jan 1969	/59	Croven Crystals
CR83B/U 50MHz thru 125MHz	CR83B/U 50MHz thru 125MHz	QA-180/D3, 28 Jan 1969	/60	Croven Crystals
CR84B/U 24MHz thru 61MHz	CR84B/U 24MHz thru 61MHz	QA-277/LD3, 4 Jan 1968	/61	Croven Crystals
CR84B/U 16MHz thru 61MHz	CR84B/U 16MHz thru 61MHz	3098-3829-13	/61	Precision Devices, Inc. (PDI)
CR84B/U 17MHz thru 61MHz	CR84B/U 17MHz thru 61MHz	3098-4378-15	/61	Xsis Electronics, Inc.
CR85B/U 2.25MHz thru 20MHz	CR85B/U 2.25MHz thru 20MHz	3098-3829-13	/56	Precision Devices, Inc. (PDI)
CR89B/U 2.25MHz thru 20MHz	CR89B/U 2.25MHz thru 20MHz	3098-3829-13	/67	Precision Devices, Inc. (PDI)
CR97B/U 8MHz thru 10MHz	CR97B/U 8MHz thru 10MHz	QA-690/E2, 2 Dec 1971	/72	Croven Crystals

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CR97B/U 8MHz thru 10MHz	CR97B/U 8MHz thru 10MHz	3098-572-03	/72	Precision Devices, Inc. (PDI)
CR97B/U 8MHz thru 10MHz	CR97B/U 8MHz thru 10MHz	3098-4378-15	/72	Xsis Electronics, Inc.
CR98B/U 50MHz thru 125MHz	CR98/U 50MHz thru 125MHz	3098-5151-18	/73	Xsis Electronics, Inc.
CR101B/U 7MHz thru 20MHz	CR101B/U 7MHz thru 20MHz	3098-587-03	/103	Croven Crystals
CR101B/U 7MHz thru 20MHz	CR101B/U 7MHz thru 20MHz	3098-3099-10	/103	Precision Devices, Inc. (PDI)
CR102B/U 50MHz thru 125MHz	CR102B/U 50MHz thru 125MHz	3098-587-03	/104	Croven Crystals
CR103B/U 17MHz thru 61MHz	CR103B/U 17MHz thru 61MHz	3098-587-03	/105	Croven Crystals
CR105B/U 50MHz thru 125MHz	CR105/U 50MHz thru 125MHz	3098-5151-18	/80	Xsis Electronics, Inc.
CR106B/U 10.5MHz thru 11.5MHz	CR106B/U 10.5MHz thru 11.5MHz	QA-690/E2, 2 Dec 1971	/82	Croven Crystals
CR106B/U 10.5MHz thru 11.5MHz	CR106B/U 10.5MHz thru 11.5MHz	3098-572-03	/82	Precision Devices, Inc. (PDI)
CR106B/U 10.5MHz thru 11.5MHz	CR106B/U 10.5MHz thru 11.5MHz	3098-4378-15	/82	Xsis Electronics, Inc.
CR107B/U 50MHz thru 125MHz	CR107/U 50MHz thru 125MHz	3098-5151-18	/83	Xsis Electronics, Inc.
CR110B/U 62.5MHz thru 75MHz	CR110/U 62.5MHz thru 75MHz	3098-5151-18	/86	Xsis Electronics, Inc.
CR116B/U 50MHz thru 125MHz	CR116/U 50MHz thru 125MHz	3098-5151-18	/92	Xsis Electronics, Inc.
CR117B/U 30MHz thru 62MHz	CR117B/U 30MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/93	Croven Crystals
CR117B/U 16MHz thru 61MHz	CR117B/U 16MHz thru 61MHz	3098-3829-13	/93	Precision Devices, Inc. (PDI)
CR117B/U 30MHz thru 61MHz	CR117B/U 30MHz thru 61MHz	3098-4378-15	/93	Xsis Electronics, Inc.
CR119B/U 2.25MHz thru 20MHz	CR119B/U 2.25MHz thru 20MHz	3098-3829-13	/95	Precision Devices, Inc. (PDI)
CR123B/U 50MHz thru 125MHz	CR123/U 50MHz thru 125MHz	3098-5151-18	/100	Xsis Electronics, Inc.
CR125B/U 2.25MHz thru 20MHz	CR125B/U 2.25MHz thru 20MHz	3098-3829-13	/102	Precision Devices, Inc. (PDI)

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CR130B/U 2.25MHz thru 20MHz	CR130B/U 2.25MHz thru 20MHz	3098-3829-13	/109	Precision Devices, Inc. (PDI)
CR131B/U 2.25MHz thru 20MHz	CR131B/U 2.25MHz thru 20MHz	3098-3829-13	/120	Precision Devices, Inc. (PDI)
CR139B/U 20MHz thru 22MHz	CR139B/U 20MHz thru 22MHz	3098-572-03; QA-690/E2, 2 Dec 1971	/118	Croven Crystals
CR139B/U 20MHz thru 22MHz	CR139B/U 20MHz thru 22MHz	3098-572-03	/118	Precision Devices, Inc. (PDI)
CR139B/U 20MHz thru 22MHz	CR139B/U 20MHz thru 22MHz	3098-4378-15	/118	Xsis Electronics, Inc.
CR141B/U 50MHz thru 90MHz	CR141B/U 50MHz thru 90MHz	QA-180/D3, 28 Jan 1969	/122	Croven Crystals
CR149B/U 50MHz thru 100MHz	CR149/U 50MHz thru 100MHz	3098-5151-18	/130	Xsis Electronics, Inc.
CR152B/U 16MHz thru 61MHz	CR152B/U 16MHz thru 61MHz	QA-180/D3, 28 Jan 1969	/133	Croven Crystals
CR152B/U 16MHz thru 61MHz	CR152B/U 16MHz thru 61MHz	3098-3829-13	/133	Precision Devices, Inc. (PDI)
CR152B/U 16MHz thru 61MHz	CR152B/U 16MHz thru 61MHz	3098-4378-15	/133	Xsis Electronics, Inc.
CR157B/U 2.25MHz thru 20MHz	CR157B/U 2.25MHz thru 20MHz	3098-3829-13	/137	Precision Devices, Inc. (PDI)

Manufacturer and Supplier Location Information

Manufacturer: Frequency Management International (CAGE Code: 3RLQ6)

Location: 15302 Bolsa Chica St, Huntington Beach, CA 92649, USA

Plants:

1. Plant: Same Address as Manufacturer

Manufacturer: Microsemi Corp. - High Performance Timing (CAGE Code: 00136)

Location: P.O. Box B, 100 Watts Street, Mt. Holly Springs, PA 17065-1821, US

Plants:

1. Plant: Same Address as Manufacturer

Manufacturer: Precision Devices, Inc. (CAGE Code: 0S4G1)

Location: P.O. Box 620155, 8840 N. Greenview Drive, Middleton, WI 53562-0155, US

Plants:

1. Plant: Same Address as Manufacturer

Manufacturer: Q-Tech Corporation (CAGE Code: 51774)

Location: 6161 Chip Ave., Cypress, CA 90630, US

Plants:

1. Plant: Same Address as Manufacturer
2. 6161 Chip Ave., Cypress, CA 90603, US

Manufacturer: Xsis Electronics, Inc. (CAGE Code: 57051)

Location: 12620 West 63rd Street, Shawnee, KS 66216-1845, US

Plants:

1. Plant: Same Address as Manufacturer