

QUALIFIED PRODUCTS LIST
 OF
 PRODUCTS QUALIFIED UNDER PERFORMANCE SPECIFICATION
 MIL-PRF-3098
 CRYSTAL UNITS, QUARTZ,
 GENERAL SPECIFICATION FOR

This list has been prepared for use by or for the Government in the acquisition of products covered by Specification MIL-PRF-3098. Listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND AND FORT MONMOUTH. The activity designated as agent for all contacts relative to this QPL is DLA Land and Maritime-VQ, Columbus, OH 43218-3990.

NOTE: Frequency to be appended to all M3098 part numbers in accordance with MIL-PRF-3098 paragraph 1.2.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
*CR18B/U 1MHz thru 20MHz	CR18B/U 1MHz thru 20MHz	3098-654-67	/3	M-tron Industries, Inc.
*CR18B/U 2.25MHz thru 20MHz	CR18B/U 2.25MHz thru 20MHz	3098-3829-13	/3	Precision Devices, Inc. (PDI)
*CR19B/U 1MHz thru 20MHz	CR19B/U 1MHz thru 20MHz	3098-654-67	/4	M-tron Industries, Inc.
*CR19B/U 2.25MHz thru 20MHz	CR19B/U 2.25MHz thru 20MHz	3098-3829-13	/4	Precision Devices, Inc. (PDI)
*CR27B/U 1MHz thru 20MHz	CR27B/U 1MHz thru 20MHz	3098-655-67	/9	M-tron Industries, Inc.
*CR27B/U 2.25MHz thru 20MHz	CR27B/U 2.25MHz thru 20MHz	3098-3829-13	/9	Precision Devices, Inc. (PDI)
*CR28B/U 1MHz thru 20MHz	CR28B/U 1MHz thru 20MHz	3098-655-67	/10	M-tron Industries, Inc.
*CR28B/U 2.25MHz thru 20MHz	CR28B/U 2.25MHz thru 20MHz	3098-3829-13	/10	Precision Devices, Inc. (PDI)
*CR35B/U 1MHz thru 20MHz	CR35B/U 1MHz thru 20MHz	3098-655-67	/15	M-tron Industries, Inc.
*CR35B/U 2.25MHz thru 20MHz	CR35B/U 2.25MHz thru 20MHz	3098-3829-13	/15	Precision Devices, Inc. (PDI)
*CR36B/U 1MHz thru 20MHz	CR36B/U 1MHz thru 20MHz	3098-655-67	/16	M-tron Industries, Inc.
*CR36B/U 2.25MHz thru 20MHz	CR36B/U 2.25MHz thru 20MHz	3098-3829-13	/16	Precision Devices, Inc.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
*CR52B/U 10MHz thru 61MHz	CR52B/U 10MHz thru 61MHz	3098-833-67	/30	M-tron Industries, Inc.
*CR55B/U 24MHz thru 62MHz	CR55B/U 24MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/33	Croven Crystals
*CR55B/U 17MHz thru 61MHz	CR55B/U 17MHz thru 61MHz	3098-280-73	/33	M-tron Industries, Inc.
*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
*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	3098-261-68	/38	M-tron Industries, Inc.
*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)
*CR61B/U 17MHz thru 61MHz	CR61B/U 17MHz thru 61MHz	3098-4378-15	/39	Xsis Electronics, Inc.
*CR62B/U 1MHz thru 20MHz	CR62B/U 1MHz thru 20MHz	3098-655-67	/40	M-tron Industries, Inc.
*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	3098-261-68	/42	M-tron Industries, Inc.
*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.
*CR65B/U 10MHz thru 61MHz	CR65B/U 10MHz thru 61MHz	3098-833-67	/43	M-tron Industries, Inc.

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*CR67B/U 24MHz thru 62MHz	CR67B/U 24MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/45	Croven Crystals
*CR67B/U 17MHz thru 61MHz	CR67B/U 17MHz thru 61MHz	3098-280-73	/45	M-tron Industries, Inc.
*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 17MHz thru 61MHz	CR72B/U 17MHz thru 61MHz	3098-280-73	/50	M-tron Industries, Inc.
*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	3098-280-73	/53	M-tron Industries, Inc.
*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.
*CR77B/U 24MHz thru 62MHz	CR77B/U 24MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/55	Croven Crystals
*CR77B/U 17MHz thru 61MHz	CR77B/U 17MHz thru 61MHz	3098-280-73	/55	M-tron Industries, Inc.
*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	3098-261-68	/62	M-tron Industries, Inc.

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*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	3098-261-68	/63	M-tron Industries, Inc.
*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 17MHz thru 61MHz	CR81B/U 17MHz thru 61MHz	3098-280-73	/58	M-tron Industries, Inc.
*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 2.12MHz thru 6.2MHz	CR89B/U 2.12MHz thru 6.2MHz	3098-654-67	/67	M-tron Industries, Inc.
*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
*CR97B/U 8MHz thru 10MHz	CR97B/U 8MHz thru 10MHz	3098-261-68	/72	M-tron Industries, Inc.

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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.
*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
*CR106B/U 10.5MHz thru 11.5MHz	CR106B/U 10.5MHz thru	QA-690/E2, 2 Dec 1971	/82	Croven Crystals
*CR106B/U 10.5MHz thru 11.5MHz	CR106B/U 10.5MHz thru	3098-261-68	/82	M-tron Industries, Inc.
*CR106B/U 10.5MHz thru 11.5MHz	CR106B/U 10.5MHz thru	3098-572-03	/82	Precision Devices, Inc. (PDI)
*CR106B/U 10.5MHz thru 11.5MHz	CR106B/U 10.5MHz thru	3098-4378-15	/82	Xsis Electronics, Inc.
*CR117B/U 30MHz thru 62MHz	CR117B/U 30MHz thru 62MHz	QA-277/LD3, 4 Jan 1968	/93	Croven Crystals
*CR117B/U 30MHz thru 61MHz	CR117B/U 30MHz thru 61MHz	3098-280-73	/93	M-tron Industries, Inc.
*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)
*CR125B/U 2.25MHz thru 20MHz	CR125B/U 2.25MHz thru 20MHz	3098-3829-13	/102	Precision Devices, Inc. (PDI)
*CR130B/U 2.25MHz thru 20MHz	CR130B/U 2.25MHz thru 20MHz	3098-3829-13	/109	Precision Devices, Inc. (PDI)
*CR131B/U 1MHz thru 20MHz	CR131B/U 1MHz thru 20MHz	3098-655-67	/120	M-tron Industries, Inc.
*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	3098-261-68	/118	M-tron Industries, Inc.

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*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
*CR142B/U 833KHz thru 833KHz	CR142B/U 833KHz thru 833KHz	3098-415-69, AF Ltr dtd 8 Mar 73	/123	M-tron Industries, Inc.
*CR152B/U 16MHz thru 61MHz	CR152B/U 16MHz thru 61MHz	3098-280-73	/133	M-tron Industries, Inc.
*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 1MHz thru 20MHz	CR157B/U 1MHz thru 20MHz	3098-654-67	/137	M-tron Industries, 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: Croven Crystals (CAGE Code: 00809)

Location: Wenzel International, Inc., P.O. Box 420, 500 Beech Street, Whitby, Ontario L1N 5S5, Canada

Plants:

1. Plant: Same Address as Manufacturer

Manufacturer: M-tron Industries, Inc. (CAGE Code: 23875)

Location: 1703 E Highway 50, Yankton, SD 57078-4134, 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: Xsis Electronics, Inc. (CAGE Code: 57051)

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