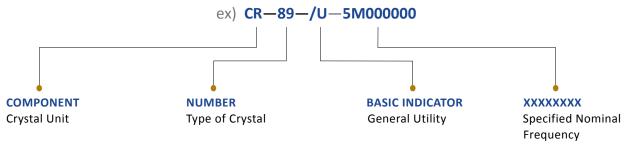






0.567L **x 0.237**W **x 0.640**H (in)

PDI *MIL-PRF-3098* Qualified Product List (QPL) crystals are available in both standard or custom frequencies to provide precision timing in a resistance welded package.



Parameter		Frequency Range	Units MHz
		2.250000 to 6.200000	
Mode of Oscillation		Fundamental	
Equivalent Series Resistance		See Table 1	
Operating Temperature Range		-55 to +90	°C
Frequency Tolerance (Inclusive)	Operating Temperature Range	±50	ppm
Drive Level	Max	1.0	mW
Load Capacitance (CL)	±0.5	30.0	pF
Seal Method	Resistance Weld		
Shunt Capacitance (CO)	Max	7.0	pF

Environmental Specifications		Units	
Shock (Specified Pulse)	Frequency Change Permitted	±5	ppm
	Equivalent Resistance Change Permitted	±15	%
Vibration MIL-STD-202, Method 201	Frequency Change Permitted	±5	ppm
	Equivalent Resistance Change Permitted	±15	%
Frequency and Equivalent Resistance	Frequency Change Permitted	±5	ppm
	Equivalent Resistance Change Permitted	±15	%
Aging	Frequency Change Permitted	±5	ppm

(Table 1) Equivalent Series Resistance			
Frequency Range (Inclusive)	Maximum Resistance	Units	
2.10 MHz to 2.25 MHz	500		
>2.25 MHz – 2.80 MHz	320		
>2.80 MHz – 3.41 MHz	250	0	
>3.41 MHz – 4.10 MHz	180	12	
>4.10 MHz – 5.10 MHz	120		
>5.10 MHz – 6.20 MHz	75		

The product described in this spec. consist of this specification and MIL-PRF-3098. Decimal XXX = \pm .008, XX = \pm .020 Metric [XXX = \pm .20], [XX = \pm .50]

REV: NA	SIZE: A	CAGE: A	1 of 3
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CR89/U-Series Inspection



MIL-PRF-3098 w/Amendment 1 Table VI, Group B Inspection for Product Level B Crystals			
Subgroup I 1/	Requirement Paragraph	Method Paragraph	
Solderability	3.7	4.10.3	
Resistance to solvents (4 sample units)	3.8	4.10.4	
Shock (Specified pulse)	3.17	4.10.13	
Vibration	3.19.1	4.10.15.1	
Thermal shock	3.23	4.10.19.1	
Seal	3.24	4.10.26	
Salt atmosphere (Corrosion)	3.27	4.10.21	
Moisture resistance	3.28	4.10.22	
Terminal strength 2/	3.30	4.10.23	
Visual and mechanical examination (Internal) 2/	3.5, 3.6, 3.35	4.10.2.2	
Bond strength (When specified) 2/	3.31	4.10.24	
Subgroup II 3/			
Insulation resistance	3.14	4.10.10	
Aging	3.29	4.10.27.1	

- 1/ If the contractor can demonstrate that any of these tests have been performed for three consecutive periods with zero failures, the frequency of this test, with the approval of the qualifying activity, can be performed every 36 months. If the design, material, construction, or processing of the crystal units change, or if there are any quality problems or failures, the qualifying activity may require resumption of the original test frequency.
- 2/ Only two units are required. These two samples units shall be subjected to terminal strength, visual and mechanical (Internal), and bond strength (When specified see 3.1).
- 3/ If the contractor can demonstrate that any of these tests have been performed for six consecutive periods with zero failures, the frequency of this test, with the approval of the qualifying activity, can be performed every 36 months. If the design, material, construction, or processing of the crystal units change, or if there are any quality problems or failures, the qualifying activity may require resumption of the original test frequency.



PACKAGE DIMENSIONS

