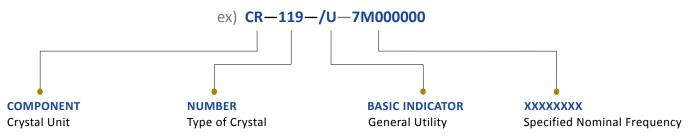






0.757L x 0.352W x 0.775H (in)

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 HC-48 package.



		Frequency Range	Units	
Ρ:	arameter	2.250000 to 20.000000	MHz	
Mode of Oscillation		Fundamental		
Equivalent Series Resistance		See Table 1		
Operating Temperature Range	noncontrolled	-55 to +105	°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 (C0)	Max	7.0	pF	

Environmental Specification	ons		Units
Charle (Caracifical Dulan)	Frequency Change Permitted	±5	ppm
Shock (Specified Pulse)	Equivalent Resistance Change Permitted	±10	%
Vibration	Frequency Change Permitted	±5	ppm
MIL-STD-202, Method 201	Equivalent Resistance Change Permitted	±10	%
They med Cheek	Frequency Change Permitted	±5	ppm
Thermal Shock	Equivalent Resistance Change Permitted	±10	%
Aging	Frequency Change Permitted	±5	ppm

(Table 1) Equivalent Se	eries Resistance	
Frequency Range (Inclusive)	Max Resistance	Units
2.25 MHz	240	
>2.25 MHz – 2.60 MHz	190	
>2.60 MHz – 3.00 MHz	150	
>3.00 MHz – 3.40 MHz	110	
>3.40 MHz – 3.75 MHz	90	
>3.75 MHz – 4.00 MHz	75	Ω
>4.00 MHz – 5.00 MHz	60	
>5.00 MHz – 7.00 MHz	35	
>7.00 MHz – 10.00 MHz	24	
>10.00 MHz – 15.00 MHz	22	
>15.00 MHz – 20.00 MHz	20	

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
-----------------	---------	--------





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.

CR119/U-Series 0.757 x 0.352 x 0.775 (in)

PACKAGE DIMENSIONS

