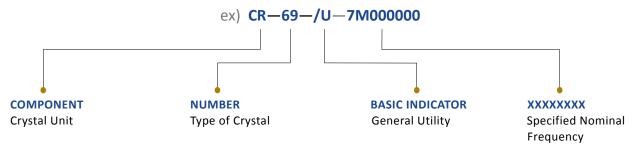


0.435L x **0.183**W x **0.530**H (in)

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 HC-49 package.



		Freque	ncy Range	Units
Ра	rameter	2.900000 1	to 25.000000	MHz
Mode of Oscillation		Fund	amental	
Equivalent Series Resistance		See	Table 1	
Operating Temperature Range	Primary	-40	to +90	°C
Operating temperature kange	Secondary	-55 to -40 and +90 to +105		
Fraguancy Talaranca (Inclusiva)	Primary Operating Temperature Range	:	±20	nnm
Frequency Tolerance (Inclusive)	Secondary Operating Temperature Range	±30		ppm
Drive Level	Max		1.0	mW
Load Capacitance (CL)	±0.5	3	30.0	pF
Seal Method	Resistance Weld			
Shunt Capacitance (CO)	Max		7.0	pF
Environmental Specifications				Units
Shock	Frequency Change Permitted		±5	ppm
SHOCK	Equivalent Resistance Change Permitted		±10	%
Vibration	Frequency Change Permitted		±5	ppm
MIL-STD-202, Method 204, Condition A	Equivalent Resistance Change Permitted		±10	%
Thermal Shock	Frequency Change Permitted	±5	ppm	
тпеттат эпоск	Equivalent Resistance Change Permitted		±10	%
Aging	Frequency Change Permitted		±5	ppm

(Table 1) Equivale	nt Series Resistance	
Frequency Range (Inclusive)	Maximum Resistance	Units
2.90 MHz to 3.75 MHz	180	
>3.75 MHz – 4.75 MHz	120	
>4.75 MHz – 6.00 MHz	75	0
>6.00 MHz – 7.00 MHz	50	12
>7.00 MHz – 10.00 MHz	30	
>10.00 MHz – 25.00 MHz	25	

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
	SIZE: A	CAGE: A	1013

CR69/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

