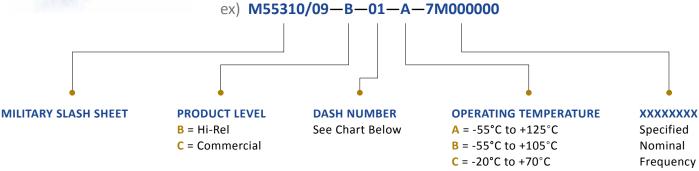






0.410D x 0.300H (in)

PDI *MIL-PRF-55310/09* Oscillators are available in both standard and custom frequencies to provide precision timing in a hermetically sealed package for military and avionics applications.



		Input Current		_		Initial		Operating Temperature		
Dash No.	Frequency Range	(1) 5.25 V ±1% Max	Rise/Fall Times Max	Duty Cycle @ 1.4 Vdc	Load (2) Max	Accuracy @ 23°C ppm Max	Aging Per Year ppm Max	(A)	(B)	(C)
01	750 KHz to 9 MHz	50 mA	15 nS	45 to 55%	10 TTL	±15	±5	±50	±40	±25
05		50 IIIA	13 113	45 10 55%	5% 10 IIL	±25	±10	±100	±80	±50
11	9 MHz to	20 4	45 6	40 to 600/	40 TTI	±15	±5	±50	±40	±25
15 25 MHz	25 MHz	30 MA	30 mA 15 nS	40 to 60%	0% 10 TTL	±25	±10	±100	±80	±50
21	25 MHz to	FO 200 A	Г "C	40 to C00/	C TTI	±15	±5	±50	±40	±25
25	60 MHz	50 mA 5 nS	40 to 60%	6 TTL	±25	±10	±100	±80	±50	

Aging Per Year (Max) (Measurements shall be taken @+70°C ±0.2°C at intervals of not more than every 72 hours for 30 days minimum)	±5 ppm	±10 ppm
Per 30 Days	±0.7 ppm	±1.5 ppm
Per 90 Days	±1.5 ppm	±3.0 ppm

NOTES:

- (1) Maximum input current for no load condition. Actual configuration of TTL loads must be added to determine power supply requirements.
- (2) A TTL unit load is defined as: 1.60 mA sink, 0.04 mA source, and 2.0 pF capacitance.

Environmental Specifications	
Terminal Strength	MIL-STD-202 , Method 211 , Condition C Applied Force: 2 pounds each terminal for 10 seconds , Bends: 5 at 45 degrees each
Vibration, sinusoidal	IAW MIL-PRF-55310 and MIL-STD-202 , Method 204 Non-operating: Test Condition D, Operating: Not Required
Ambient Pressure	Non-operating: IAW MIL-PRF-55310 , Operating: MIL-STD-202 , Method 105 , Condition C

The product described in this spec. consist of this specification and MIL-PRF-55310.

Decimal XXX = \pm .005, XX = \pm .020 Metric [XXX = \pm .13], [XX = \pm .50]

rev: NA	SIZE: A	CAGE: A	1 of 3



MIL-55310/09-Series 0.410 x 0.300 (in)

	Parameter	Frequency Range 750KHz to 60MHz	Units	
	vs Temperature (Max)			
	-20 to +70°C (Type C)	Per Chart		
	-55 to +105°C (Type B)	Per Chart		
	-55 to +125°C (Type A)	Per Chart		
Frequency Stability	vs Supply Voltage (Max. for a 10% change) (Measurements taken at reference temperature and operating temperature range end points)	±2.0		
	Tolerance (@ +23°C ± 1.0°C) (Max) Within 30 Days of Shipment	Per Chart		
Townsersture Dongs	Operating	Per Chart	°C	
Temperature Range	Storage	-62 to +125		
Supply Voltage	±10.0 %	+5.0	Vdc	
Output		TTL		
Logic Loyals	High (Min)	2.4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Logic Levels	Low (Max)	0.5	Vdc	

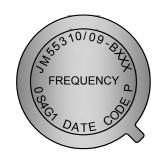
Test Inspection	Product Level B Method Condition		
Internal Visual	MIL-STD-883, Method 2017 and 2032		
Stabization bake (prior to seal) 1/	MIL-STD-883, Method 1011, Condition C (+150°C) 48 hours min.		
Temperature Cycling	MIL-STD-883, Method 1010 Condition B		
Constant Acceleration	MIL-STD-883, Method 2001. Condition A, Y1 only (5000 g's)		
Seal (Fine and Gross Leak) 2/	MIL-STD-883, Method 1014		
Burn-In (Load)	+125C, nominal supply voltage and burn-in load, 160 hours minimum		
Electrical Test:	Nominal supply voltages, specified load, +23°C and verify frequency at the temperature extremes		
Input Current Power	4.8.5 of MIL-PRF-55310		
Output Waveform	4.8.20 of MIL-PRF-55310		
Output Voltage-Power	4.8.21 of MIL-PRF-55310		
As Specified	3.1 of MIL-PRF-55310		

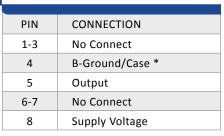
REV: NA	SIZE: A	CAGE: A	2 of 3
REV: NA	SIZE: A	CAGE: A	2 of 3



MIL-55310/09-Series 0.410 x 0.300 (in)

PACKAGE DIMENSIONS





* - Case to be connected to base pin 4 to permit shielding of the oscillator.

