



Product Features:

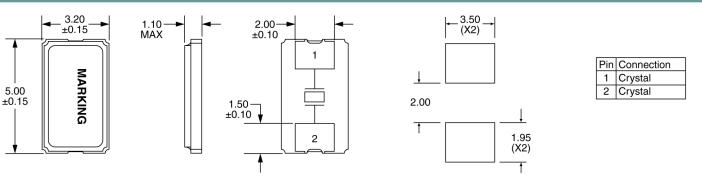
AEC – Q200 qualified IATF 16949 certified production lines RoHS and REACH compliant Suitable for use in harsh environments Extended operating temperature range: -40°C to +125°C

Electrical Specifications

Applications: Navigation, GPS Infotainment System Instrument Panel, Ethernet ADAS Radar, Camera, Engine Control Units Lidar Systems, TPMS

Frequency	7.6MHz to 54MHz	
Equivalent Series Resistance		
7.6MHz – 11.999999MHz	100 Ohms Maximum	
12MHz – 13.999999MHz	60 Ohms Maximum	
14MHz – 19.999999MHz	50 Ohms Maximum	
20MHz – 54MHz	40 Ohms Maximum	
Shunt Capacitance (C0)	5pF Maximum	
Frequency Tolerance (at 25°C)	±50ppm, ±30ppm, ±25ppm, ±20ppm, ±15ppm, or ±10ppm	
Frequency Stability (over Temperature)	±100ppm, ±50ppm, ±30ppm, or ±20ppm	
Mode of Operation	Fundamental	
Crystal Cut	AT Cut	
Load Capacitance	8pF to 32pF or Specify	
Drive Level	300µWatts Maximum	
Aging	±3ppm/Year Maximum	
Operating Temperature Range	-40°C to +85°C, -40°C to +105°C, or -40°C to +125°C	
Storage Temperature Range	-50°C to +150°C	

Mechanical and Solder Pad Dimensions



Note: Chamfer not shown.

Part Number Guide

	Sample Part Number: IXA18 – FBDF18 - 25.000 MHz							
Package	Frequency Tolerance	Frequency Stability	Operating Temperature Range	Mode of Operations	Load Capacitance	Frequency		
IXA18 -	$B = \pm 50 ppm$	$A = \pm 100 ppm$	5 = -40°C to +85°C	F = Fundamental	8pF to 32pF or Specify	- 25.000 MHz		
	$F = \pm 30 ppm$	$B = \pm 50 ppm$	D = -40°C to +105°C					
	$G = \pm 25 ppm$	F = ±30ppm*, **	F = -40°C to +125°C					
	$H = \pm 20 ppm$	H = ±20ppm*, **						
	$I = \pm 15$ ppm							
	$J = \pm 10 ppm$							

* Not available at all frequencies. ** Not available for all temperature ranges.

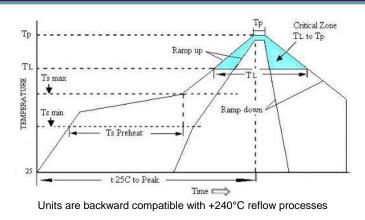
ILSI America Phone 775-851-8880 • Fax 775-851-8882 •email: e-mail@ilsiamerica.com • www.ilsiamerica.com Specifications subject to change without notice

All Dimensions in Millimeters

Rev: 05/10/18_B



Pb Free Solder Reflow Profile:

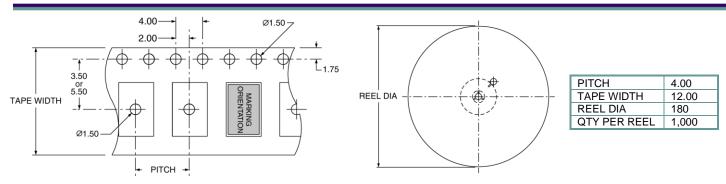


Ts max to T _L (Ramp-up Rate)	3ºC / second max	
Preheat		
Temperature min (Ts min)	150°C	
Temperature typ (Ts typ)	175⁰C	
Temperature max (Ts max)	200°C	
Time (Ts)	60 to180 seconds	
Ramp-up Tate (T _L to Tp	3°C / second max	
Time Maintained Above		
Temperature (T _L)	217ºC	
Time (T _{L)}	60 to 150 seconds	
Deals Terra eventure (Te)	260°C max for 10	
Peak Temperature (Tp)	seconds	
Time within 5°C to Peak	20 to 40 seconds	
Temperature (Tp)	20 10 40 Seconds	
Ramp-down Rate	6°C / second max	
Tune 25°C to Peak Temperature	8 minutes max	

Package Information:

MSL = 1 (package does not contain plastic, storage life is unlimited under normal room conditions) Termination = e4 (Au over Ni over W base metallization)

Tape and Reel Information:



Environmental Specifications:

Mechanical Shock	MIL-STD-202, Method 213
Vibration	MIL-STD-202, Method 204
Resistance to Soldering Heat	MIL-STD-202, Method 210
Solderability	J-STD-002
Gross Leak	MIL-STD-883, Method 1014, Condition C
Fine Leak	MIL-STD-883, Method 1014, Condition A2

Marking:

Line 1: Frequency (XX.XX)

Line 2: Date Code (YWW)