IXA18 Series

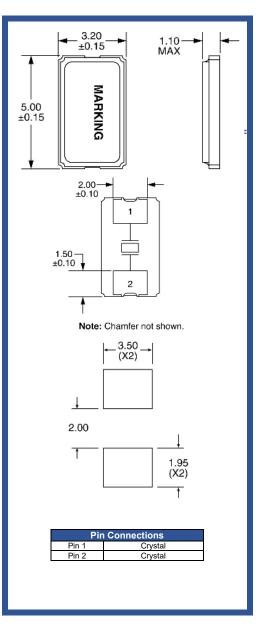


Product Feature: AEC-Q200 Qualified IATF 16949 certified production lines RoHS and REACH compliant Suitable for use in harsh environment

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	±100ppm, ±50ppm, ±30ppm,
Temperature)	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



Part Number Guide		Sample Part Number: IXA18 – FBDF18 - 25.000 MHz				
Package	Tolerance (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency
IXA18-	B = ±50 ppm	A = ±100 ppm	5 = -40°C to +85°C	E = Fundamental	8pF to 32pF	- 25.000 MHz
	F = ±30 ppm	B = ±50 ppm	D = -40°C to +105°C			
	G = ±25 ppm	F = ±30 ppm*, **	F = -40°C to +125°C			
	H = ±20 ppm	H = ±20 ppm*, ***			Or Specify	
	l = ±15 ppm					
	J = ±10 ppm					

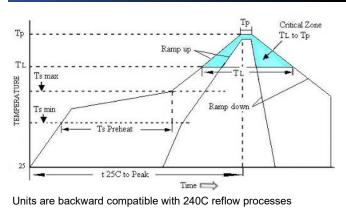
* Not available at all frequencies.

** Not available for Operating Temperature Range Option F. *** Not available for Operating Temperature Range Option D or F.

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Pb Free Solder Reflow Profile:

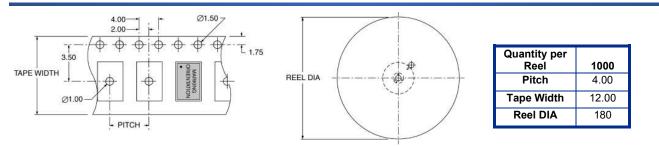


Ts max to T_{L} (Ramp-up Rate)	3°C / second max	
Preheat		
Temperature min (Ts min)	150°C	
Temperature typ (Ts typ)	175°C	
Temperature max (Ts max)	200°C	
Time (Ts)	60 to180 seconds	
Ramp-up Tate (T _L to Tp	3°C / second max	
Time Maintained Above		
Temperature (T _L)	217⁰C	
Time (T _{L)}	60 to 150 seconds	
Peak Temperature (Tp)	260°C max for 10 seconds	
Time within 5°C to Peak	20 to 40 seconds	
Temperature (Tp)		
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 metal).

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