## **IXA20 Series**

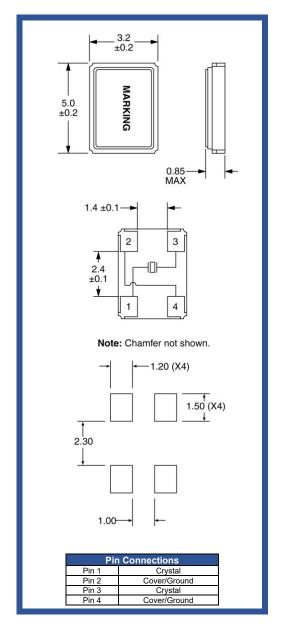


#### **Product Feature:**

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 12MHz – 13.999999MHz 14MHz – 19.999999MHz 20MHz – 54MHz	100 Ohms Maximum 60 Ohms Maximum 50 Ohms Maximum 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



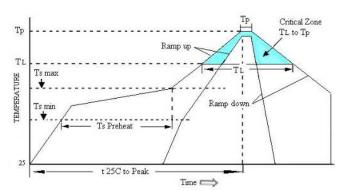
Part Number G	art Number Guide Sample Part Number:		Sample Part Number: IXA20 – FBDF18 - 25.000 MHz			
Package	Tolerance (ppm) at Room	Stability (ppm) over Operating	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency
	Temperature	Temperature				
	B = ±50 ppm	A = ±100 ppm	5 = -40°C to +85°C	- F = Fundamental		- 25.000 MHz
	F = ±30 ppm	B = ±50 ppm	D = -40°C to +105°C		8pF to 32pF	
IXA20-	G = ±25 ppm	F = ±30 ppm*, **	F = -40°C to +125°C			
IAA2U-	H = ±20 ppm	H = ±20 ppm*, **		r - rundamentai	Or Specify	- 25.000 MHZ
	I = ±15 ppm					
	J = ±10 ppm					

<sup>\*</sup> Not available at all frequencies.

<sup>\*\*</sup> Not available for Operating Temperature Range Option F.
\*\*\* Not available for Operating Temperature Range Option D or F.



#### **Pb Free Solder Reflow Profile:**



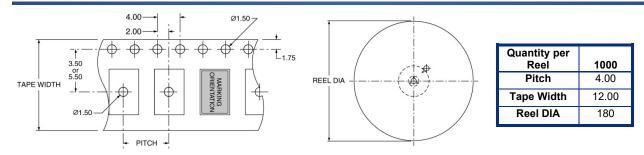
Units are backwar	d compatible with	240C reflow	processes
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Towards T (Down on Data)	000 /	
Ts max to T <sub>∟</sub> (Ramp-up Rate)	3°C / second max	
Preheat		
Temperature min (Ts min)	150°C	
Temperature typ (Ts typ)	175°C	
Temperature max (Ts max)	200°C	
Time (Ts)	60 to180 seconds	
Ramp-up Tate (T <sub>∟</sub> to Tp	3°C / second max	
Time Maintained Above		
Temperature (T∟)	217°C	
Time (T <sub>L)</sub>	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)	20 to 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 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

# **Mouser Electronics**

**Authorized Distributor** 

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# **ABRACON:**

<u>IXA20-FBFF12-10.000MHz</u> <u>IXA20-FBFF12-12.000MHz</u> <u>IXA20-FBFF12-16.000MHz</u> <u>IXA20-FBFF12-24.000MHz</u> IXA20-HF5F12-10.000MHz IXA20-HF5F12-12.000MHz IXA20-HF5F12-16.000MHz IXA20-HF5F12-24.000MHz