

IXA16 Series

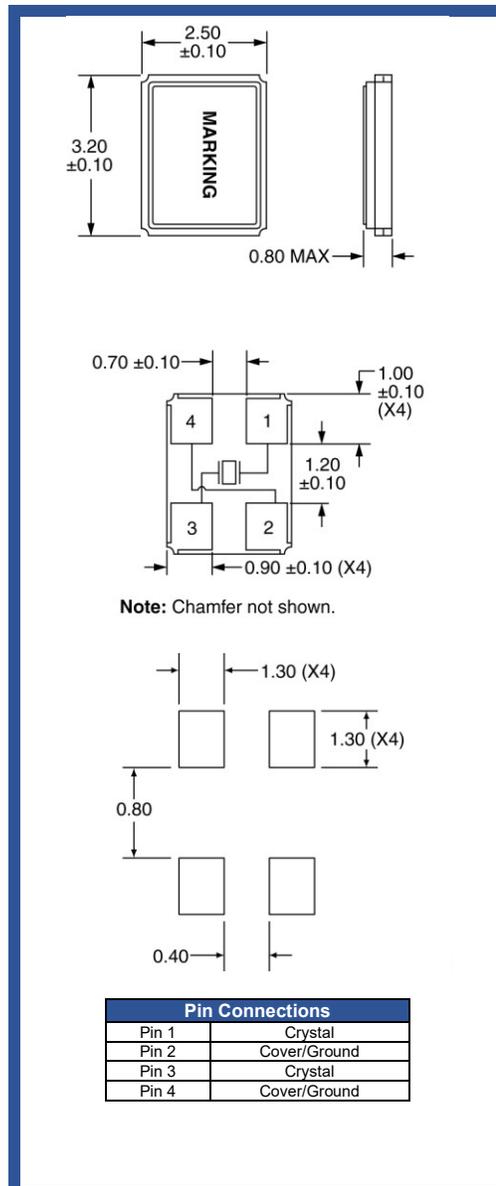
Product Feature:

AEC-Q200 Qualified
IATF 16949 certified production lines
RoHS and REACH compliant
Suitable for use in harsh environments

Applications:

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

Frequency	8MHz to 66MHz
Equivalent Series Resistance	
8MHz – 9.999999MHz	800 Ohms Maximum
10MHz – 10.999999MHz	250 Ohms Maximum
11MHz – 11.999999MHz	150 Ohms Maximum
12MHz – 12.999999MHz	100 Ohms Maximum
13MHz – 15.999999MHz	80 Ohms Maximum
16MHz – 20.999999MHz	70 Ohms Maximum
21MHz – 29.999999MHz	60 Ohms Maximum
30MHz – 66MHz	50 Ohms Maximum
Shunt Capacitance (C0)	3pF 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	7pF to 32pF or Specify
Drive Level	200µWatts 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



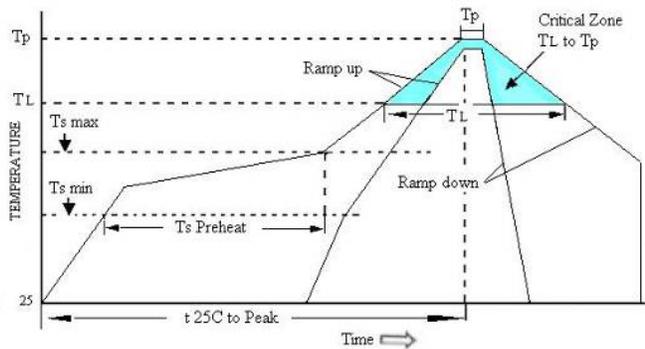
Part Number Guide		Sample Part Number:		IXA16-FBDF18- 25.000 MHz		
Package	Tolerance (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency
IXA16-	B = ±50 ppm	A = ±100 ppm	5 = -40°C to +85°C	F = Fundamental	7pF to 32pF Or Specify	- 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*, ***				
	I = ±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.

Pb Free Solder Reflow Profile:



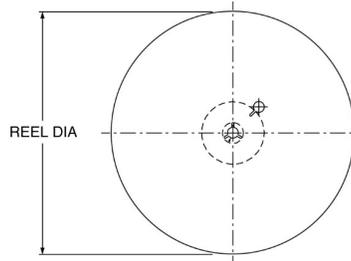
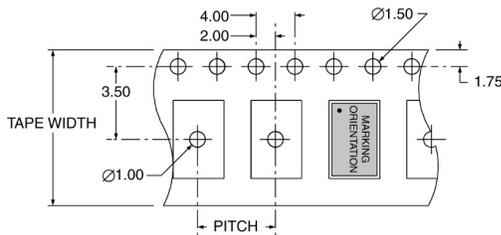
Units are backward compatible with 240C reflow processes

Ts max to TL (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 to 180 seconds
Ramp-up Rate (TL to Tp)	3°C / second max
Time Maintained Above Temperature (TL)	217°C
Time (TL)	60 to 150 seconds
Peak Temperature (Tp)	260°C max for 10 seconds
Time within 5°C to Peak Temperature (Tp)	20 to 40 seconds
Ramp-down Rate	6°C / second max
Time 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:



Quantity per Reel	3000
Pitch	4.00
Tape Width	8.00
Reel DIA	180

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