

# IXA16 Series

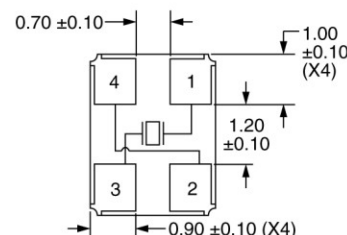
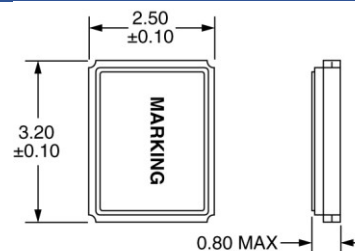
## Product Feature:

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

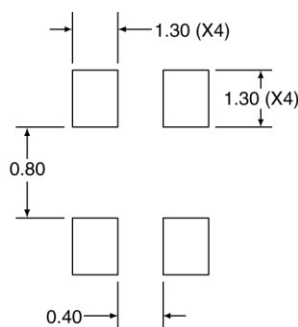
## Applications:

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

<b>Frequency</b>	8MHz to 66MHz
<b>Equivalent Series Resistance</b>	
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
<b>Shunt Capacitance (C0)</b>	3pF Maximum
<b>Frequency Tolerance (at 25°C)</b>	±50ppm, ±30ppm, ±25ppm, ±20ppm, ±15ppm, or ±10ppm
<b>Frequency Stability (over Temperature)</b>	±100ppm, ±50ppm, ±30ppm, or ±20ppm
<b>Mode of Operation</b>	Fundamental
<b>Crystal Cut</b>	AT Cut
<b>Load Capacitance</b>	7pF to 32pF or Specify
<b>Drive Level</b>	200µWatts Maximum
<b>Aging</b>	±3ppm/Year Maximum
<b>Operating Temperature Range</b>	-40°C to +85°C, -40°C to +105°C, or -40°C to +125°C
<b>Storage Temperature Range</b>	-50°C to +150°C



Note: Chamfer not shown.



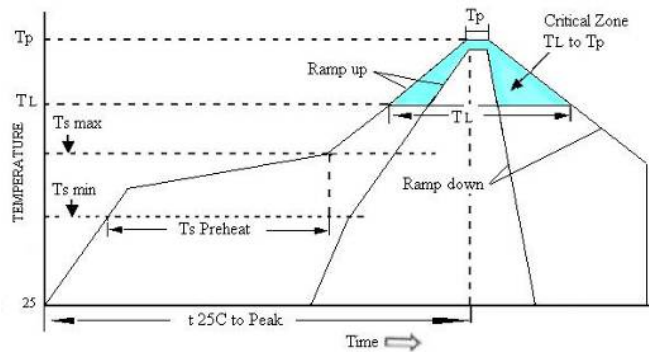
Pin Connections	
Pin 1	Crystal
Pin 2	Cover/Ground
Pin 3	Crystal
Pin 4	Cover/Ground

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.

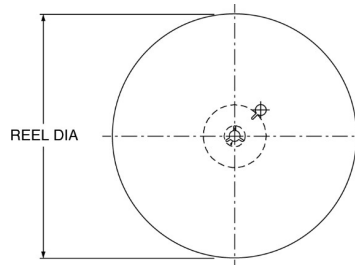
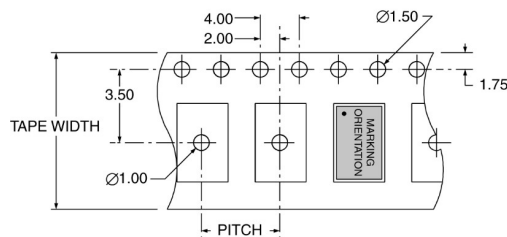
**Pb Free Solder Reflow Profile:**

Units are backward compatible with 240C reflow processes

Ts max to T <sub>L</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 to 180 seconds
Ramp-up Rate (T <sub>L</sub> to T <sub>p</sub> )	3°C / second max
Time Maintained Above Temperature (T <sub>L</sub> )	217°C
Time (T <sub>L</sub> )	60 to 150 seconds
Peak Temperature (T <sub>p</sub> )	260°C max for 10 seconds
Time within 5°C to Peak Temperature (T <sub>p</sub> )	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:**

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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

[IXA16-JBFF18-24.000MHZ](#)