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## AE M\_ \_ Series Surface Mount Crystal 12.5 x 4.6 x 4.0 mm

Part Numbering Definition Guide: AE-M20-A-2-2070-3-20-30M0000								
Example	AE	M20	A	2	2070	3	D	30M0000 (Freq. in MHz)
Oscillation Mode			A					Fundamental
			B					3rd Overtone
Calibration Tolerance				1				± 10 ppm
				2				± 20 ppm
				3				± 30 ppm
				5				± 50 ppm
				Z				±Custom (Specify)
Operating Temperature					5505			Custom (-55°C to +105°C)
					4085			-40° to +85°
					3060			-30° to +60°
					2070			-20° to +70°
Temperature Stability						5		± 50 ppm
						3		± 30 ppm
						2		± 20 ppm
						1		± 10 ppm
Load Capacitance						18		B = 18 pf
						20		C = 20 pf
						30		D = 30 pf
						32		E = 32 pf
						SE		S = Series
						XX		Z = Other (I.E. 08 pf)



### FEATURES:

Frequency Range 3.2 MHz - 130.0 MHz  
Resistance weld package,  
low cost for mass applications,  
industry standard footprint that is not  
moisture sensitive.  
Tape/Reel is compliant with EIA 481.  
ROHS Compliant/Pb-Free

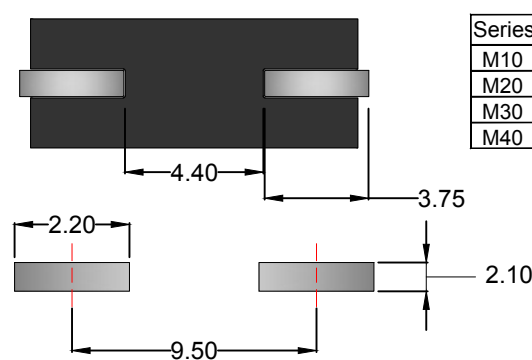
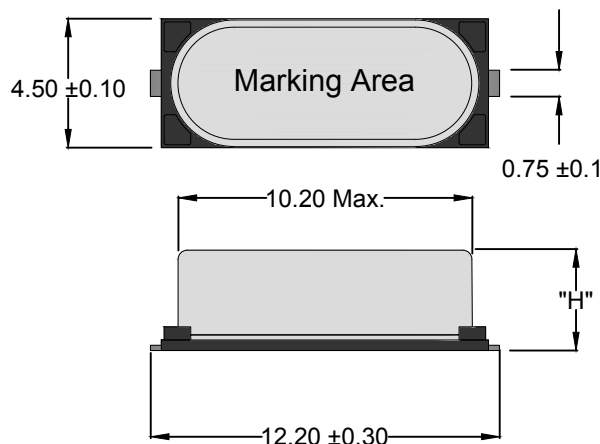
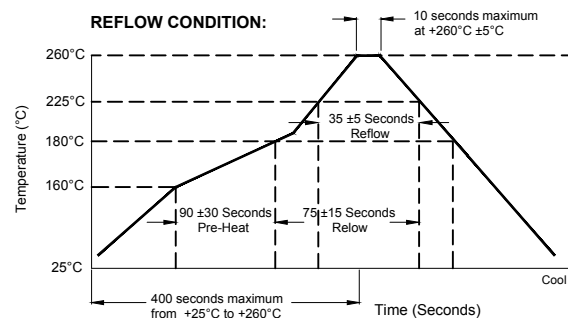
### APPLICATIONS:

This resistance weld AE M series  
package is for pagers, cellular  
telephones.  
Communication and test equipment.

Parameters	Minimum	Nominal	Maximum	Units
Shunt Capacitance			7.0	pF
Drive Level		100		uW
Aging / year	-5.0		+5.0	Units
Insulation Resistance	500			(M) ohms

Frequency Range (MHz)	Series Resistance (ESR)	Mode of Operation
3.200 - 5.000	200 Ohms maximum	Fundamental
5.000 - 12.000	100 Ohms maximum	Fundamental
12.000 - 35.000	50 Ohms maximum	Fundamental
35.000 - 48.000	80 Ohms maximum	3rd Overtone
48.000 - 132.00	100 Ohms maximum	3rd Overtone



Dimensions in Units: mm

Table 1:

Series	Unit Height
M10	4.0 maximum
M20	3.5 maximum
M30	3.2 maximum
M40	3.0 maximum