

PART NUMBERING GUIDE		Environmental/Mechanical Specifications on page F5	
<b>FMT11 D 20 C 1 29.4912MHz</b>			
<b>Package</b>		<b>Mode of Operation</b>	
F = 1.3mm max. ht. / Ceramic Glass Sealed Package		1=Fundamental	
F11 = 1.1mm max. ht. / Ceramic Glass Sealed Package		3=Third Overtone	
FMT = 1.3mm max. ht. / Seam Weld "Metal Lid" Package		5=Fifth Overtone	
FMT11 = 1.1mm max. ht. / Seam Weld "Metal Lid" Package			
<b>Tolerance/Stability</b>		<b>Operating Temperature Range</b>	
A=±50/100		C=0°C to 70°C	
B=±50/50		E=-20°C to 70°C	
C=±30/50		F=-40°C to 85°C	
D=±20/30			
E=±15/30		<b>Load Capacitance</b>	
F=±10/50		S=Series, XX=XXpF (Pico Farads)	

ELECTRICAL SPECIFICATIONS	
<b>Frequency Range</b>	8.000MHz to 150.000MHz
<b>Frequency Tolerance/Stability</b> A, B, C, D, E, F	See above for details! Other Combinations Available. Contact Factory for Custom Specifications.
<b>Operating Temperature Range</b> "C" Option, "E" Option, "F" Option	0°C to 70°C, -20°C to 70°C, -40°C to 85°C
<b>Aging @ 25°C</b>	±3ppm / year Maximum
<b>Storage Temperature Range</b>	-55°C to 125°C
<b>Load Capacitance</b> "S" Option "XX" Option	Series 8pF to 50pF
<b>Shunt Capacitance</b>	7pF Maximum
<b>Insulation Resistance</b>	500 Megaohms Minimum at 100Vdc
<b>Drive Level</b>	1mW Maximum, 100uW correlation

EQUIVALENT SERIES RESISTANCE (ESR)				
Frequency (MHz)	ESR (ohms)		Frequency (MHz)	ESR (ohms)
9.000 to 10.999	60		35.000 to 39.990 (3rd OT)	60
11.000 to 13.999	50		40.000 to 49.990 (3rd OT)	60
14.000 to 15.999	40		50.000 to 89.999 (3rd OT)	60
16.000 to 40.000	30		90.000 to 150.000	100

MECHANICAL DIMENSIONS	Marking Guide on page F3-F4
<p>All Dimensions in mm.</p>	<p><b>Pad Connection</b></p> <ul style="list-style-type: none"> <li>1 Crystal In/Out</li> <li>2 Ground</li> <li>3 Crystal in/Out</li> <li>4 Ground</li> </ul> <p><b>NOTE: Dimensions for Specific Packages</b></p> <ul style="list-style-type: none"> <li>H = 1.3 Maximum for "F Series"</li> <li>H = 1.3 Maximum for "FMT Series" / "Metal Lid"</li> <li>H = 1.1 Maximum for "F11 Series"</li> <li>H = 1.1 Maximum for "FMT11 Series" / "Metal Lid"</li> </ul>