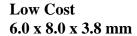
TUM-5

Crystal Resonator

FEATURES:

Higher Frequencies Small Metal Can





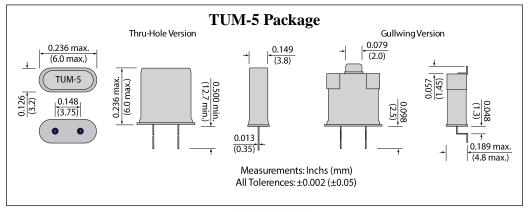


Parameter	Unit	Min.	Typ.	Max.
Frequency Range (FR)	MHz	5.000	-	200.000
Operating Temperature Range	°C	See Table		
Frequency Tolerance at 25°C	ppm	±5	-	±50
Frequency Stability	ppm	See Table		
Load Capacitance (C _L)	рF	6	-	Series
Shunt Capacitance (C ₀)	рF	-	-	7
Equivalent Series Resistance (R)	Ohms	See Table		
Drive Level	μW		100	1000
Aging per year	ppm	-	±3.0	±5.0
Storage Temperature Range	°C	-40	-	+85

Frequency (MHz)	ESR (Ohms) max.	
Fundamental Mode		
5.000 to 50.000	30	
3 rd Overtone		
>24.000 to 100.000	60	
5 th Overtone		
>70.000 to 160.000	90	
7 th Overtone		
>160.000 to 200.000	140	
	-	

Temperature	Stability (ppm)
-10 to +60°C	$\pm 5, \pm 10, \pm 15, \pm 20, \pm 25, \pm 30, \pm 50$
-20 to +70°C	$\pm 5, \pm 10, \pm 15, \pm 20, \pm 25, \pm 30, \pm 50$
-40 to +85°C	+5 +10 +15 +20 +25 +30 +50

Terminal Material KOVAR Terminal Plating Sn-Ag-Cu REACH Compliant Yes RoHS Compliant Yes RoHS Exemptions No Re-flow Temp. Max. 260°C MSL 1



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