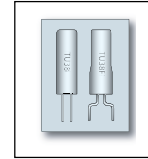


TU38F/TU310F Crystal Resonator



FEATURES:

Tubular Package

Low Cost

TU38F package: 9.0 x 3.2 mm

TU310F package: 10.5 x 3.2 mm

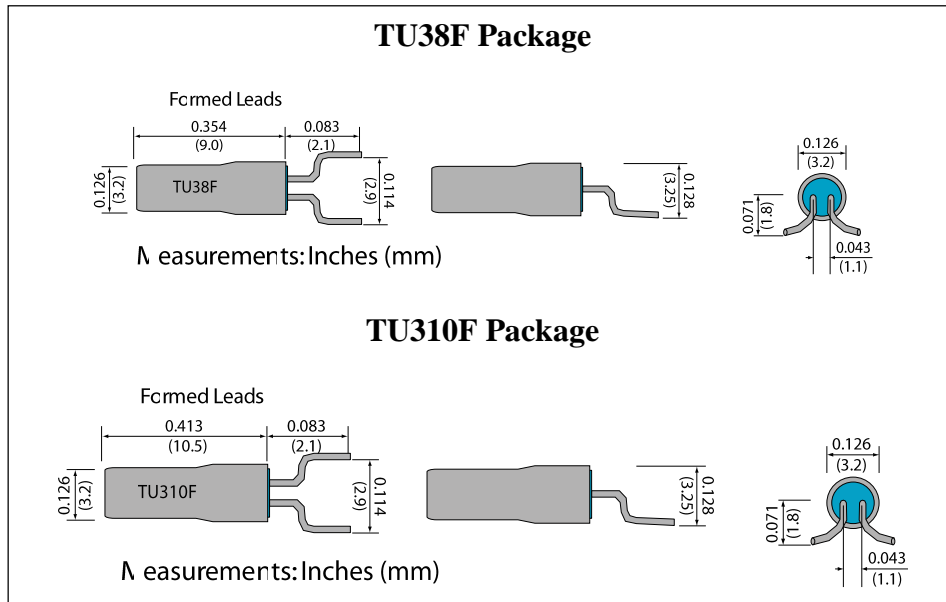
Parameter	Unit	Min.	Typ.	Max.
Frequency Range (FR)	MHz	3.579	-	70.000
Operating Temperature Range	°C	-20	-	+70
Frequency Tolerance at 25°C	ppm	-	±30	-
Frequency Stability	ppm	-	-	±50
Load Capacitance (C _L)	pF	8	-	-
Shunt Capacitance (C ₀)	pF	-	-	5
Equivalent Series Resistance (R)	Ohms	See Table		
Drive Level	µW	-	100	1000
Insulation Resistance		500 M Ohms @100 ±15 V		
Aging first year	ppm	-	-	±5.0
Storage Temperature Range	°C	-40	-	+85

Frequency (MHz)	ESR (Ohms) max.
Fundamental Mode	
3.579 to 30.000	200
3 rd Overtone	
>30.000 to 70.000	100

Environmental

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

Frequency >4 MHz = **TU38F**
 Frequency <4 MHz = **TU310F**



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Example Part Number: TU38F-A-18-25M576 TU310F-A-18-12M56

TU38F TU310F	1	2	3
	Tolerance	Load Cap.	Frequency
	A = ±30 B = ±10	AA = Series xx = Load i.e. 16, 24, 32	Frequency in MHz i.e. 25M456 use M for decimal

point