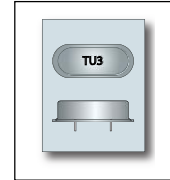


TU3 Crystal Resonator



FEATURES:

Tight Stability

Low Frequency

Low Cost

11.05 x 4.7 x 2.5 mm

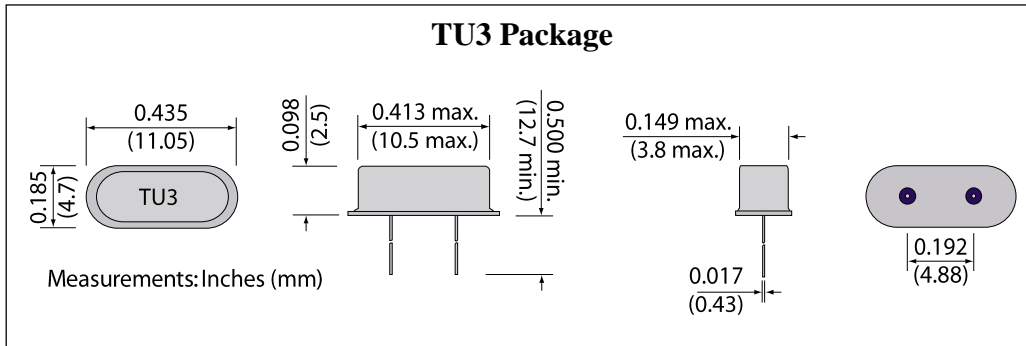
Parameter	Unit	Min.	Typ.	Max.
Frequency Range (FR)	MHz	3.200	-	100.000
Operating Temperature Range	°C	See Table		
Frequency Tolerance at 25°C	ppm	±10	-	±50
Frequency Stability	ppm	See Table		
Load Capacitance (C _L)	pF	6	-	Series
Shunt Capacitance (C ₀)	pF	-	-	7
Equivalent Series Resistance (R)	Ohms	See Table		
Drive Level	µW	10	100	1000
Aging first year	ppm	-		±5.0
Storage Temperature Range	°C	-40	-	+85

Frequency (MHz)	ESR (Ohms) max.
Fundamental Mode	
3.200 to 3.579	250
>3.579 to 4.000	180
>4.000 to 5.000	140
>5.000 to 6.000	100
>6.000 to 8.000	80
>8.000 to 10.000	60
>10.000 to 14.000	50
>14.000 to 40.000	40
3 rd Overtone	
>24.000 to 100.000	100

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

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



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Example Part Number: TU3-D-E-16-18-25M576

TU3	1	2	3	4	5
	Tolerance	Stability	Temp. Range	Load Cap.	Frequency
	A = ±50	A = ±50	16 = -10 to +60°C	AA = Series	Frequency in MHz
	B = ±30	B = ±30	27 = -20 to +70°C	xx = Load	i.e. 25M456
	C = ±25	C = ±25	48 = -40 to +85°C	i.e. 16, 24, 32	use M for decimal point
	D = ±20	D = ±20			
	E = ±15	E = ±15			
	F = ±10	F = ±10			

Note: Consult factory for additional potential options not listed.