

TF Series Crystal



- 2mm X 6mm Cylindrical
- 3mm X 8mm Cylindrical
- RoHS Compliant Available



Series	TF206	TF308
Frequency Range	32kHz to 100kHz	29kHz to 40kHz
Frequency Tolerance	(See Part Number Guide)	
Frequency Stability (ppm)	$-3.4 (\pm 0.6) \times 10^{-8} / ^\circ\text{C}^2$	$-3.4 (\pm 0.6) \times 10^{-8} / ^\circ\text{C}^2$
Turnover Temperature (To)	+25°C ±5°C	+25°C ±5°C
Operating Temperature Range	-10°C to +60°C	-10°C to +60°C
Storage Temperature Range	-40°C to +85°C	-40°C to +85°C
Aging	±5ppm / 1 st yr max	±5ppm / 1 st yr max
Shunt Capacitance	0.8pF – 1.7pF typ*	0.8pF – 1.7pF typ*
Equivalent Series Resistance	35K ohms max	35K ohms max
Load Capacitance	12.5pF of specify	12.5pF of specify
Drive Level	1μW max	1μW max
Motional Capacitance	1fF – 4fF*	1fF – 4fF*
Capacitance Ratio	425-800 typ*	425-800 typ*
* Indicates that the spec given varies depending on frequency		
Insulation Resistance	500M ohms minimum / DC 100VDC ±15VDC	
Hermeticity of Seal	1 x 10 ⁻² mPa (m ³ /s) max	
Shock Resistance	±5ppm max (drop test onto a hard wooden board from 75cm)	

Marking Detail

Line 1 = Frequency

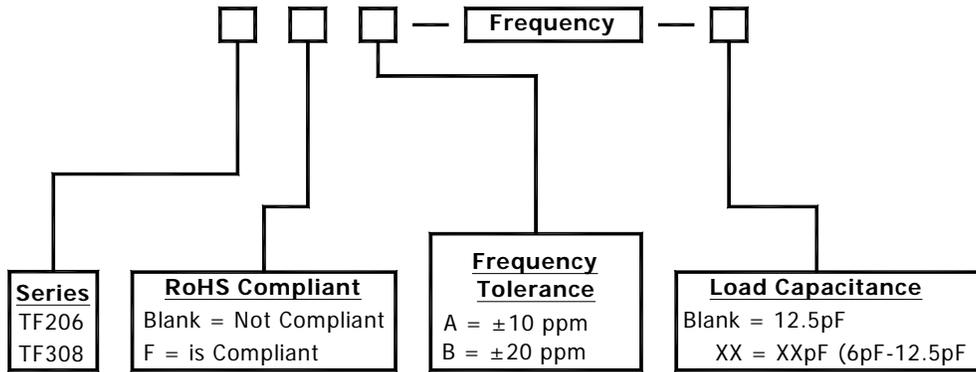


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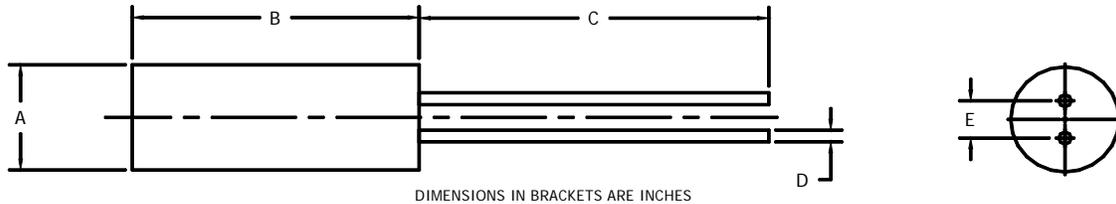
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Part Number Guide



Please Consult with MMD Sales Department for any other Parameters or Options

Mechanical Details



Series	A	B	C	D	E
TF206	2.1 [.083]	6.2 [.244]	10.0 [.394]	0.26 [.010]	0.7 [.028]
TF308	3.1 [.122]	8.2 [3.23]	10.0 [.394]	0.3 [.012]	0.8 [0.031]



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