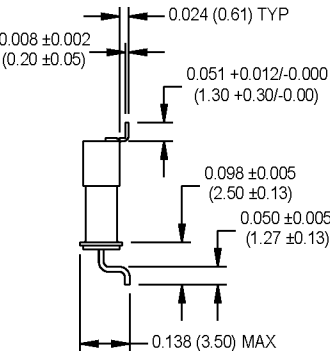
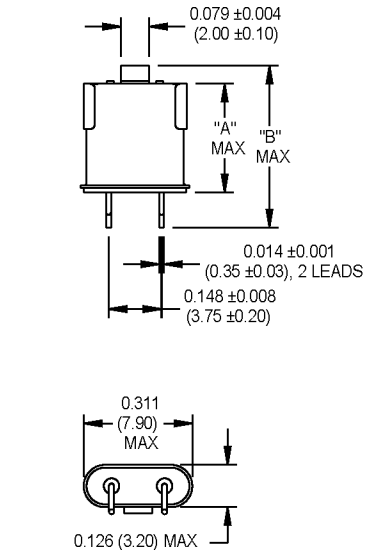


UM-1/G, UM-4/G and UM-5/G
Surface Mount Crystals



Crystals Engineered for High Quality Performance in Tight Spaces

UM-1/G, UM-4/G, and UM-5/G 00.0000 MHz (customer specified)

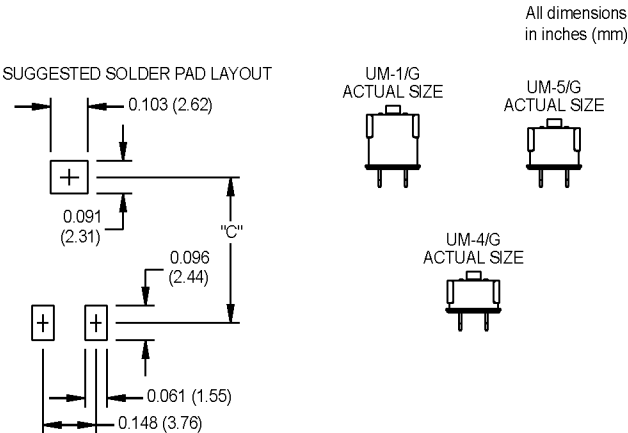


Dim.	UM-1/G	UM-4/G	UM-5/G
"A"	0.319 (8.10)	0.185 (4.70)	0.236 (6.00)
"B"	0.484 (12.29)	0.350 (8.89)	0.401 (10.19)
"C"	0.406 (10.31)	0.278 (7.06)	0.329 (8.36)

Electrical Specifications

PARAMETERS	*UM-1/G	*UM-4/G *UM-5/G
Frequency Range (MHz)	7.000 to 200.000	12.000 to 200.000
Tolerance @ +25°C	±25 ppm	±25 ppm
Stability	±35 ppm	±35 ppm
Aging	±5 ppm/yr. Max.	±5 ppm/yr. Max.
Shunt Capacitance	7 pF Max.	7 pF Max.
Load Capacitance	18 pF Std.	18 pF Std.
Standard Operating Conditions	-20°C to +70°C	-20°C to +70°C
Equivalent Series Resistance (ESR), Max.		
Fundamental (AT-cut)		
7.000 to 7.999 MHz	120 Ω	
8.000 to 9.999 MHz	80 Ω	
10.000 to 17.999 MHz	40 Ω	40 Ω
18.000 to 30.000 MHz	30 Ω	30 Ω
Third Overtones (AT-cut)		
25.000 to 29.999 MHz	50 Ω	50 Ω
30.000 to 75.000 MHz	45 Ω	45 Ω
Fifth Overtones (AT-cut)		
50.000 to 143.000 MHz	90 Ω	90 Ω
Seventh Overtones (AT-cut)		
125.000 to 180.000 MHz	140 Ω	140 Ω
Ninth Overtones (AT-cut)		
180.000 to 200.000 MHz	150 Ω	150 Ω
Drive Level	1 mW Max.	1 mW Max.
Holder	UM-1	UM-4 or UM-5

* Series resonant designated by "SR" prefix (i.e., **SRUM-1/G**).
Contact the factory for specifications not listed above.
See page 136, Figure "2" for suggested solder profile.



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