



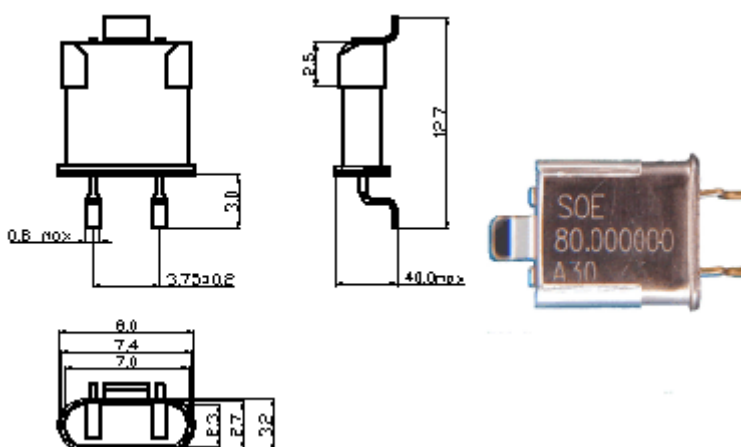
M2 TYPE--UM-1 GULL WING AND METAL JACKET

Standard Specifications

FREQUENCY RANGE (MHZ)	10.000~200.000
Mode of Vibration	10.000~30.000MHz Fundamental 30.000~90.000MHz 3 rd Overtone 60.000~150.000MHz 5 th Overtone 9 0.000~200.000MHz 7 th Overtone
Drive Level (mW)	0.1 TYPICAL
Load Capacitance (pF)	8.0pF MIN
Frequency Tolerance (ppm)	± 10, ± 30
Shunt Capacitance (pF)	7 (MAX)
Operating Temperature Range	-20 °C ~70 °C
Frequency Stability (refer to 25 °C)	± 10ppm, ± 30ppm
Storage temperature Range	-40 °C ~+85 °C
Aging (refer to 25 °C)	± 5ppm (First Year)

Equivalent Series Resistance

FREQUENCY RANGE (MHZ)	ESR (MAX) (Ω)	FREQUENCY RANGE (MHZ)	ESR (MAX) (Ω)
10.000~15.000	40	60.000~150.000	100
15.000~30.000	25	90.000~200.000	150
30.000~90.000	60		



All Dimensions in mm

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