



Resistance Welded UM-1, UM-5 Package

FEATURE

- Excellent frequency temperature characteristics extending across a wide temperature range
- Excellent aging characteristics
- Uniform frequency tuning range and modulation sensitivity
- Excellent shock resistance



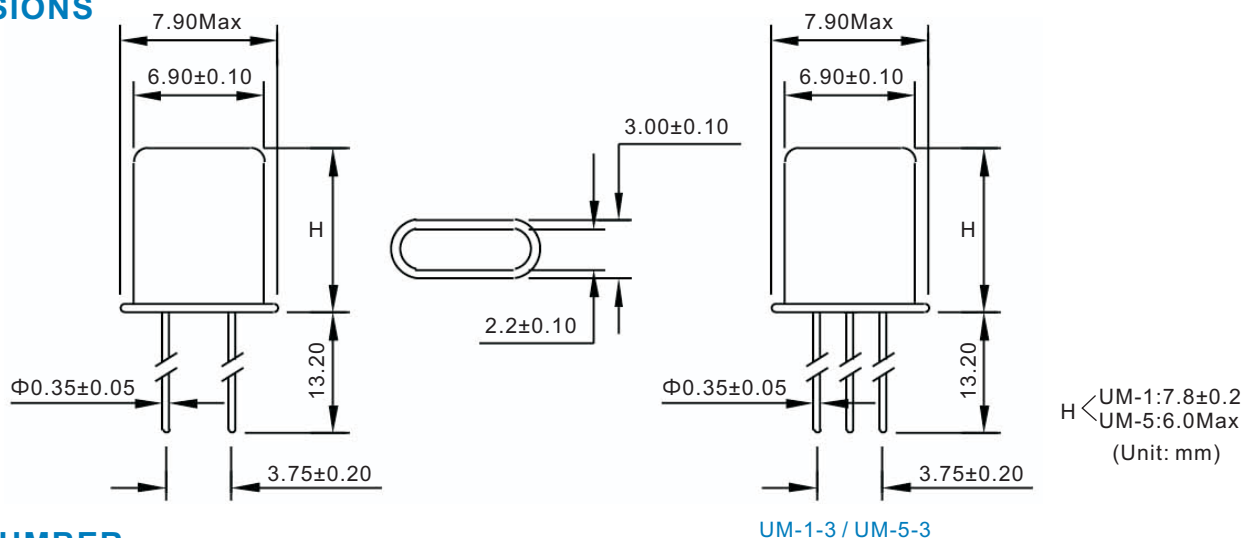
ELECTRICAL SPECIFICATIONS

Frequency Range	6.000MHz to 200.000MHz
Frequency Tolerance	±5ppm ~ ±50ppm
Frequency Stability	±10ppm ~ ±50ppm
Load Capacitance	Series, 16pF, 20pF, 30pF, or specify
Equivalent Series Resistance	See below table
Operating Temperature Range	-20°C to +70°C (typical), -10°C to +60°C, -40°C to +85°C, or specify
Storage Temperature Range	-40°C to +85°C / -55°C to +125°C
Aging	±5ppm/year Max
Parallel Capacitance(Co)	7pF Max
Drive Level	100 μW typical
Insulation Resistance	More than 500MΩ at DC100V

EQUIVALENT SERIES RESISTANCE(ESR) AND OSCILLATION MODE

Frequency(MHz)	E.S.R.(Ω)	Mode	Frequency(MHz)	E.S.R.(Ω)	Mode
6.000~6.999	120Max	Fundamental	12.000~13.999	40Max	Fundamental
7.000~7.999	100Max	Fundamental	14.000~25.000	30Max	Fundamental
8.000~9.999	80Max	Fundamental	25.000~71.999	70Max	3rd Overtone
10.000~10.999	60Max	Fundamental	72.000~159.999	100Max	5th Overtone
11.000~11.999	50Max	Fundamental	160.000~200.000	140Max	7th Overtone

DIMENSIONS



PART NUMBER

GMK-UM-1-	8.000	20	30	B	30	80
UM-5-						
UM-1-3-	Frequency	Load Cap.	Frequency	Operating	Frequency	E.S.R. Max
UM-5-3-	8.000	20:20pF	Tolerance	Temperature	Stability	80:80Ω
	8.000MHz	00:Series	30:±30ppm	A: -10~60°C	30:±30ppm	
				B: -20~70°C		
				C: -40~85°C		