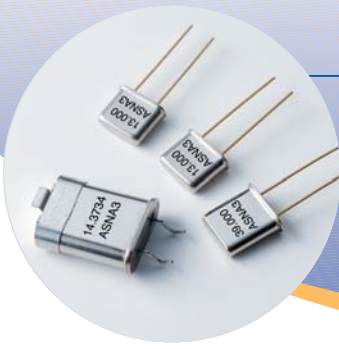


Crystal Units

UM-1



FEATURES

- Tight Frequency Tolerance
- Excellent Reliability and Aging
- Cost Effective
- Wide Frequency Range
- Low Profile
- RoHS Compliant

SPECIFICATION

MODEL		ASUM1
Frequency		
Frequency Range (Fundamental)		6.000 ~ 50.000
Frequency Range (3rd overtone)		30.000 ~ 120.000
Frequency Range (5th overtone)		75.000 ~ 160.000
Frequency Tolerance (25°C)	ppm	± 5 ~ ± 50
Frequency Stability (Ref to 25°C)	ppm	± 10 ~ ± 50
Environmental		
Operating Temperature Range	°C	-10 to +70
Storage Temperature Range	°C	-40 to +85
Aging	ppm/Year	± 2 Max.
Electrical Specifications		
Load Capacitance (CL)	pF	5-100pF or Series Resonance
Drive Level	uW	0.01 μW~1000 μW
Equivalent Series Resistance	Ω	see table
Insulation Resistance		More than 500MΩ at DC 100V
Shunt Capacitance (Co)	pF	5.0 (Max.)

Mode/Cut and Equivalent Series Resistance (Ω)

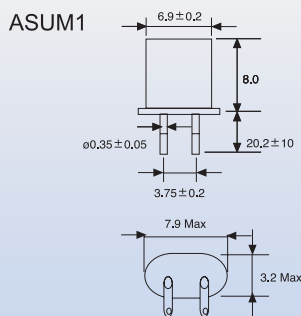
Frequency (MHz)	Mode	Max ESR Ω
6.00~ 10.00	Fundamental/AT	40
10.00~ 50.00	Fundamental/AT	25
30.00~ 120.00	3rd Overtone/AT	40
75.00~ 160.00	5th Overtone/AT	60

MARKING RULE



Line 1: Oscillating frequency
Line 2: Ansen / Date Code

DIMENSION (mm)



PART NUMBERING GUIDE

Example: ASUM1-25M-FE160E2

MODEL	Frequency	Mode	Tolerance	CL	Stability	OP Temp Range
ASUM1	In MHZ	F: Fundamental 3: 3rd Overtone 5: 5th Overtone	A: ± 10ppm B: ± 15ppm C: ± 20ppm D: ± 25ppm E: ± 30ppm F: ± 50ppm G: ± 100ppm O: Others	080: 8pF 125: 12.5pF 160: 16pF 180: 18pF 200: 20pF 300: 30pF 320: 32pF S: Series	A: ± 10ppm B: ± 15ppm C: ± 20ppm D: ± 25ppm E: ± 30ppm F: ± 50ppm G: ± 100ppm O: Others	1: 0 to +70°C 2: -10 to +70°C 3: -20 to +70°C 4: -20 to +80°C 5: -40 to +85°C 6: -40 to +105°C 0: Others