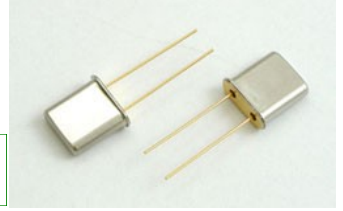


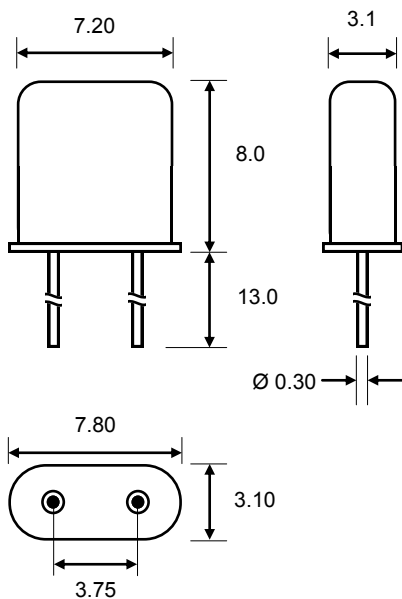
HIGH FREQUENCY THROUGH HOLE CRYSTAL (7.8 x 3.1 x 8.0mm)
FEATURES:

- HIGH FREQUENCY RANGE
- HIGH PRECISION QUARTZ CRYSTAL
- SHORT LEAD TIME

RoHS
Compliant



MODEL	UM-1			
FREQUENCY RANGE	10.000 MHz ~ 200.000 MHz			
FREQUENCY TOLERANCE	±5.0ppm ~ ±100ppm @ 25°C (see below part numbering guide)			
FREQUENCY STABILITY	±5.0ppm ~ ±100ppm (see below part numbering guide)			
OPERATING TEMPERATURE	0°C to 50°C, -40°C to 85°C, (see below part numbering guide)			
STORAGE TEMPERATURE	-55°C to 125°C			
LOAD CAPCITANCE	Series to 32pF (see below part numbering guide)			
SHUNT CAPACITANCE	7pF max			
INSULATION RESISTANCE	500M Ω min. @ 100VDC			
DRIVE LEVEL	100uW typical, 1.0mW max.			
AGING @ 25°C	±3.0ppm max / year.			
FREQUENCY RANGE / ESR ()	10.000MHz ~ 10.999MHz	60Ω max. (Fundamental)	30.000MHz ~ 34.999MHz	30Ω max. (Fundamental)
	11.000MHz ~ 11.999MHz	50Ω max. (Fundamental)	35.000MHz ~ 60.000MHz	25Ω max. (Fundamental)
	12.000MHz ~ 13.999MHz	45Ω max. (Fundamental)	61.000MHz ~ 200.000MHz	22Ω max. (Fundamental)
	14.000MHz ~ 19.999MHz	40Ω max. (Fundamental)	24.000MHz ~ 29.999MHz	70Ω max. (3rd overtone)
	20.000MHz ~ 24.999MHz	35Ω max. (Fundamental)	30.000MHz ~ 59.999MHz	60Ω max. (3rd overtone)
	25.000MHz ~ 29.999MHz	32Ω max. (Fundamental)	60.000MHz ~ 200.000MHz	45Ω max. (3rd overtone)

PACKAGE DIMENSIONS


Unit : mm

PART NUMBERING GUIDE
