

# UM5

# THRU-HOLE CRYSTAL

## FEATURES

- High Precision availability
- Wide Frequency Range
- Applications: Telecommunication equipment, Pagers,...

7.8 x 3.3 x 6.0 mm



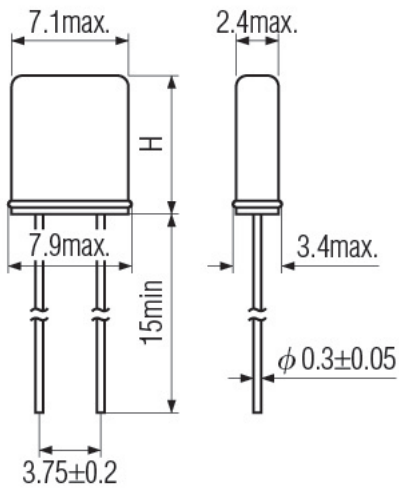
Item	Symbol	Specification
Frequency Range	Fo	10.000 MHz ~ 200 MHz
Operation Mode		10.000 MHz + Fundamental (see options) 35.0 MHz ~ 130.0 MHz 3rd-overtone (see options) 65.0 MHz ~ 200.0 MHz 5th-overtone (see options) 80.0 MHz ~ 200.0 MHz 7th-overtone (see options)
Operating temperature Range	To	0° to +70°C (see options)
Frequency Tolerance at 25°C	$\Delta f/F$	$\pm 10$ ppm max. (see options)
Temperature Stability	$\Delta f/F$	$\pm 10$ ppm max. (see options)
Load Capacitance (CL)	CL	series or 5 pF to 100 pF (see options)
Equivalent Series Resistance	ESR	Frequency dependent, please consult factory
Shunt Capacitance (Co)	Co	7pF Max
Insulation Resistance	Ri	500 M $\Omega$ min. (at 100Vdc)
Drive Level	DL	1mW max.
Aging	$\Delta f/F$	$\pm 5$ ppm max (at 25°C, first year)
Packing Unit		Bulk in bag
		<b>Customer specifications on request</b>

## OPTIONS & ORDERING INFORMATION

UM5-	.....	.....	.....	.....	.....	..... MHz	- .....
	Freq. Tolerance	Freq. Stability*	Operating Temp.*	Load Capacitance	Mode	Frequency in MHz	ESR if other than STD
	05 = $\pm 05$ ppm	05 = $\pm 05$ ppm	D = -10° / +60°C	Please specify CL in pF or S for Series	F = Fundamental	Please specify the frequency in MHz	Specify a value in $\Omega$
	10 = $\pm 10$ ppm	10 = $\pm 10$ ppm	E = 0° / +70°C		D = 3rd overtone		
	15 = $\pm 15$ ppm	15 = $\pm 15$ ppm	F = -20° / +70°C		V = 5th overtone		
	20 = $\pm 20$ ppm	20 = $\pm 20$ ppm	G = -30° / +75°C		Z = 7th overtone		
	25 = $\pm 25$ ppm	25 = $\pm 25$ ppm	H = -30° / +85°C				
	30 = $\pm 30$ ppm	30 = $\pm 30$ ppm	K = -40° / +85°C				
	50 = $\pm 50$ ppm	50 = $\pm 50$ ppm					

\* Note: Not all combinations are possible, please consult us.

## OUTLINE DIMENSIONS



Holder	Height(H)
UM-1	8.0mm max.
UM-5	6.0mm max.