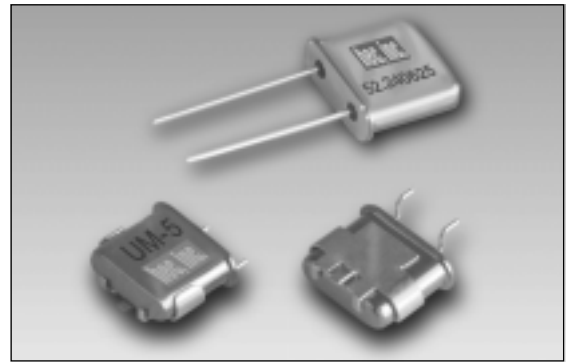


# H5 SERIES UM-5 PAGER CRYSTAL

HEC, INC. specializes in the UM-5 pager crystal, which features the lower profile resistance welded housing for an excellent hermetic seal and therefore very good frequency aging characteristics. This UM-5 crystal is available with a wide frequency range (10 MHz to 225 MHz), wireless communication grade tight tolerances, and in the metal jacket SMD configuration (see mechanical drawing below). Both packages have a small footprint ideal for space limited applications.



## FEATURES:

- Available in SMD configuration
- Wide frequency coverage (10 - 225 MHz)
- Small footprint
- Resistance Weld for good aging factor
- Low profile

## ELECTRICAL SPECIFICATIONS

PARAMETERS	CONDITIONS	MINIMUM	STANDARD	MAXIMUM	UNIT
FREQUENCY RANGE		10.000		225.000	MHz
FREQUENCY TOLERANCE	10.00 - 225.00 MHz	-50*		+50*	PPM
FREQUENCY STABILITY, ref @ 25°C	10.00 - 225.00 MHz	-50*		+50*	PPM
OPERATING TEMPERATURE			-10°C to +60°C*		°C
STORAGE TEMPERATURE			-40°C to +85°C		°C
SHUNT CAPACITANCE (C <sub>0</sub> )				7.0	pF
LOAD CAPACITANCE (C <sub>L</sub> )	Customer specified	6.0	18.0		pF
DRIVE LEVEL	10 - 225 MHz			0.1	mW
AGING	at 25°C per year 10 - 225 MHz	-3		+3	PPM

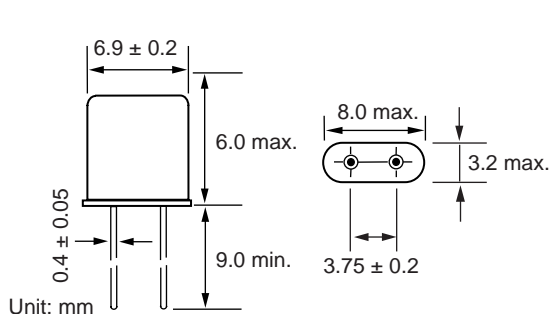
\* Tight tolerances optional - please specify

## EQUIVALENT SERIES RESISTANCE (ESR) SPECIFICATIONS

FREQUENCY RANGE (MHz)	MODE	ESR (Ω) MAX.	FREQUENCY RANGE (MHz)	MODE	ESR (Ω) MAX.
10.000 - 10.999	Fundamental	60	30.000 - 135.000	3rd Overtone	40
11.000 - 45.000	Fundamental	40	100.000 - 225.000	5th Overtone	80

## MECHANICAL DRAWING

UM-5 PACKAGE DRAWING



UM-5 WITH METAL JACKET SMD CONFIGURATION

