

H SERIES - RESISTANCE WELD CRYSTAL



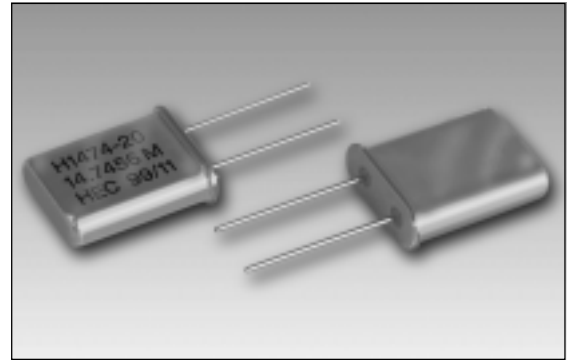
The H-Series industry standard HC49U crystal in the rugged resistance welded package allows for an excellent aging factor and many options. HEC offers this crystal in a wide frequency range (1 to 200 MHz) at an economical cost.

FEATURES:

- Wide freq. range 1-200 MHz
- Industry standard package
- Resistance Welded
- Economical cost

OPTIONS:

- Extended temp. range
- Tighter tolerances
- Insulator
- Third lead



ELECTRICAL SPECIFICATIONS

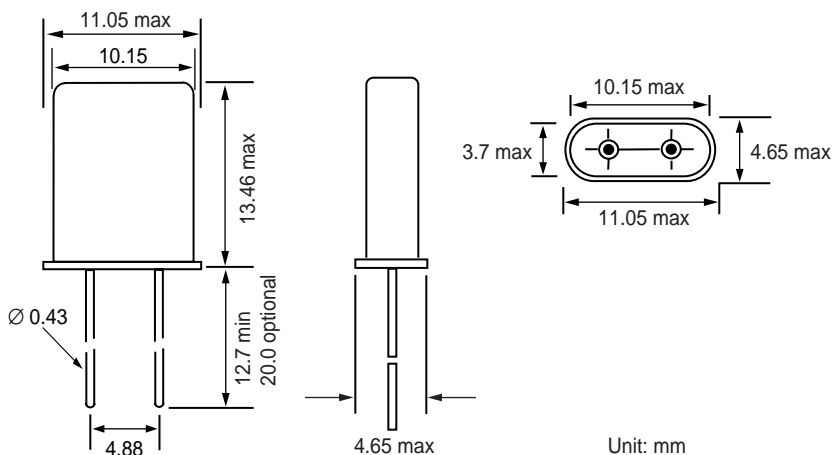
PARAMETERS	CONDITIONS	MINIMUM	MAXIMUM	UNIT
FREQUENCY RANGE		1.000	200.000	MHz
FREQUENCY TOLERANCE	@ 25°C	-30*	+30*	PPM
FREQUENCY STABILITY, REF @ 25°C	1.000 - 200.000 MHz	-50*	+50*	PPM
OPERATING TEMPERATURE RANGE		0°C to +70°C / -40°C to +85°C*		°C
STORAGE TEMPERATURE RANGE		-40°C to +85°C / -55°C to +125°C*		°C
SHUNT CAPACITANCE (C ₀)		7.0		pF
LOAD CAPACITANCE (C _L)	Per customer spec.	10.0	Series	pF
DRIVE LEVEL	1.800 - 3.000 MHz 3.000 - 200.000 MHz	2.0 1.0		mW
AGING CHARACTERISTICS	@ 25°C per year	± 5 PPM max.		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
1.000	FUNDAMENTAL	2500	10.00 - 25.00	FUNDAMENTAL	20 - 30
1.8432 - 2.000	FUNDAMENTAL	500	24.00 - 65.00	3rd OVERTONE	30 - 60
2.000 - 2.400	FUNDAMENTAL	300	60.00 - 110.00	5th OVERTONE	80
2.400 - 3.200	FUNDAMENTAL	150	110.00 - 200.00	7th OVERTONE	120
3.200 - 4.000	FUNDAMENTAL	100	180.00 - 200.00	9th OVERTONE	140
4.000 - 10.00	FUNDAMENTAL	35 - 60			

MECHANICAL DRAWING



PART NUMBERING GUIDE

EXAMPLE: H2700F-20-EXT

H	2700F	- 20	-EXT
H Series	Frequency F = Fund (> 25 MHz)	Capacitance Load S = Series	Options

OPTIONS:

E: -40+85°C
E105: -40+105°C
E55/105: -55+105°C
E125: -55+125°C
INS: With Insulator

3L: 3rd Lead (Top)
3LB: 3rd Lead (Bottom)
GW: Gullwing
XPPM: Tolerance (specify)
SP: Per specifications