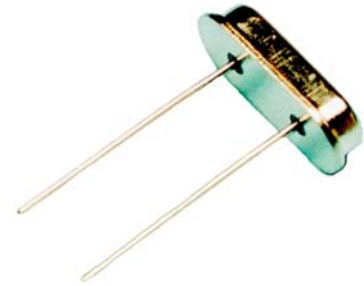


- Low profile version of HC-49/U.
- Available in 3.5 or 2.5 mm height.
- Features AT-cut strip resonator in hermetically sealed metal holder.
- Excellent for height-limited boards.



SPECIFICATIONS

Crystal Holder Prefix:	<i>HUS</i> : 3.5mm holder height; <i>HUSL</i> : 2.5mm holder height					
Frequency Range:	3.2 ~70.0 MHz					
Mode of Oscillation:	3.2 ~30.0 MHz: AT-cut Fundamental 27.0~70.0 MHz: AT-cut 3 rd Overtone 24.0~48.0 MHz: BT-cut Fundamental					
Calibration Tolerance: At +25°C	AT-cut: ±30 ppm (±0.003%) at 25°C.. Tolerance as tight as ±10 ppm is also available BT-cut: ±30 ppm (±0.003%) at 25°C					
Frequency Stability:	AT-cut: ± 30 ppm (±0.003%) over -10 to +60°C. Stability as tight as ±10 ppm over -10 to +60°C is also available. BT-cut: ±100 ppm (±0.01%) over -10 to +60°C					
Shunt Capacitance (Co):	7 pF maximum					
Load Capacitance (CL):	Series (spec. code is “S”) or Parallel (If parallel, please specify CL value, typical CL ranges from 8 to 32 pF)					
Equivalent Series Resistance (E.S.R.)	Frequency	Osc. Mode	E.S.R. max.	Frequency	Osc. Mode	E.S.R. max.
	3.2 ~ 3.4	AT funda.	300 Ω	13.0 ~ 30.0	AT funda.	40 Ω
	3.5 ~ 4.0	AT funda.	150 Ω	24.0 ~ 40.0	BT funda.	40 Ω
	4.1 ~ 4.9	AT funda.	120 Ω	40.1 ~ 48.0	BT funda.	30 Ω
	5.0 ~ 5.9	AT funda.	100 Ω	27.0 ~ 30.0	AT 3 rd O/T	150 Ω
	6.0 ~ 8.9	AT funda.	80 Ω	30.1 ~ 50.0	AT 3 rd O/T	100 Ω
	9.0 ~ 9.9	AT funda.	60 Ω	50.1 ~ 70.0	AT 3 rd O/T	80 Ω
10.0 ~ 12.9	AT funda.	50 Ω				
Drive Level:	500 μW maximum					
Aging:	±3 ppm per year max.					

MERCURY www.mercury-crystal.com

Taiwan: TEL (886)-2-2695-7099, FAX (886)-2-2695-7473, e-mail: sales-tw@mercury-crystal.com

U.S.A.: TEL (1)-909-466-0427, FAX (1)-909-466-0762, e-mail: sales-us@mercury-crystal.com

STANDARD FREQUENCIES AND PART NUMBERS (partial list) Custom spec. welcome. Tighter tolerance available.

MEC Part Number	MEC Specification Code
HUS-3.270-18P	30/50/-10+60/300R
HUS-3.579545-18P	30/50/-10+60/150R
HUS-3.6864-20P	30/50/-10+60/150R
HUS-4.000-20P	30/50/-10+60/150R
HUS-4.032-20P	30/50/-10+60/150R
HUS-4.096-20P	30/50/-10+60/150R
HUS-4.433619-18P	30/50/-10+60/120R
HUS-4.9152-18P	30/50/-10+60/120R
HUS-5.120-18P	30/50/-10+60/100R
HUS-6.000-18P	30/50/-10+60/80R
HUS-6.144-18P	30/50/-10+60/80R
HUS-7.3728-18P	30/50/-10+60/80R
HUS-8.000-18P	30/50/-10+60/80R
HUS-9.8304-20P	30/50/-10+60/60R
HUS-10.000-18P	30/50/-10+60/50R
HUS-10.240-18P	30/50/-10+60/50R
HUS-11.0592-20P	30/50/-10+60/50R
HUS-12.000-18P	30/50/-10+60/50R
HUS-12.288-32P	30/50/-10+60/50R

MEC Part Number	MEC Specification Code
HUS-14.31818-18P	30/50/-10+60/40R
HUS-14.7456-S	30/50/-10+60/40R
HUS-15.000-S	30/50/-10+60/40R
HUS-16.000312-32P	30/50/-10+60/40R
HUS-16.384-S	30/50/-10+60/40R
HUS-18.432-S	30/50/-10+60/40R
HUS-19.6608-S	30/50/-10+60/30R
HUS-20.000-20P	30/50/-10+60/30R
HUS-24.000-S	30/50/-10+60/30R
HUS-24.576-S	30/50/-10+60/30R
HUS-29.4912BF-S	30/100/-10+60/40R (BT-cut Fund.)
HUS-30.000BF-S	30/100/-10+60/40R (BT-cut Fund.)
HUS-30.000BF-S	30/100/-10+60/40R (BT-cut Fund.)
HUS-32.000BF-S	30/100/-10+60/40R (BT-cut Fund.)
HUS-32.000BF-S	30/100/-10+60/40R (BT-cut Fund.)
HUS-36.000-BF-S	30/100/-10+60/40R (BT-cut Fund.)
HUS-40.000BF-S	30/100/-10+60/30R (BT-cut Fund.)
HUS-65.000A3-S	30/50/-10+60/80R (AT-cut 3 rd O/T)

PACKAGE DIMENSIONS

Unit: mm [inches]

