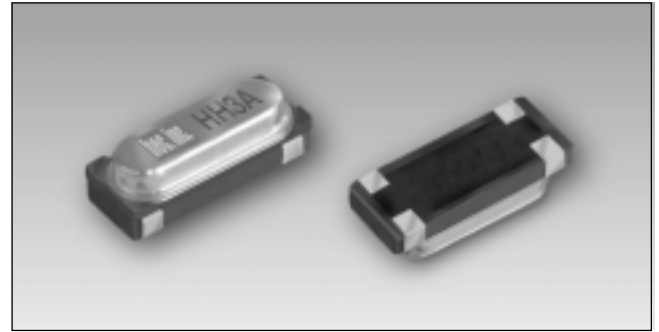


HH3A / HH3AS SURFACE MOUNT PLASTIC BASE CRYSTAL



HEC offers the HH3A series, an excellent substitution to the HE3A and Epson plastic surface mount crystal. With a durable plastic base molded into this crystal, the HH3A provides both the footprint to match your plastic type crystals as well as tighter specifications, a wider frequency range, and more cost effective pricing. In addition, the HH3A is available in a lower profile package, the HH3AS series, to meet space critical designs.



FEATURES:

- Matches Epson footprint
- 2 Package Heights
- Tighter tolerances and wider frequency range available
- On Tape and Reel (1000 per reel)
- Cost effective

ELECTRICAL SPECIFICATIONS

PARAMETERS	CONDITIONS	HH3A	HH3AS	UNIT
FREQUENCY RANGE		3.579-70.00	8.00-70.00	MHz
FREQUENCY TOLERANCE	@ 25°C	-30*		PPM
FREQUENCY STABILITY, REF @ 25°C	3.200 - 70.000 MHz	-50*		PPM
OPERATING TEMPERATURE RANGE		0°C to +70°C / -40°C to +85°C*		°C
STORAGE TEMPERATURE RANGE		-30°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	3.200 to 70.000 MHz	0.5		mW
AGING CHARACTERISTICS	@ 25°C per year	± 5 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
3.200 - 3.500	FUNDAMENTAL	300	8.00 - 11.99	FUNDAMENTAL	60 to 80
3.500 - 5.00	FUNDAMENTAL	100 to 200	12.00 - 30.00	FUNDAMENTAL	30 to 40
5.00 - 7.99	FUNDAMENTAL	80 to 120	27.00 - 70.00	3rd OVERTONE	100

MECHANICAL DRAWING

