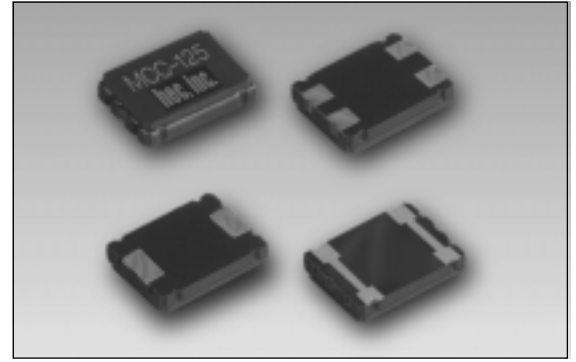


HE-MCC-125 and HE-MCC-170 series are HEC's miniature ceramic base surface mount crystals with a package height of only 1.25 mm / 1.70 mm. These crystals are glass sealed in a ceramic housing, which offers both economical cost and high reliability. HEC, INC. offers three (3) different true SMD footprint patterns, and the extended temperature range is optional.



FEATURES:

- Glass sealed ceramic package
- 3 different industry standard footprints available
- Gold plated terminals for the best solderability
- Available on tape and reel (1,000 PC per reel)

ELECTRICAL SPECIFICATIONS / PART NUMBERING GUIDE

PARAMETERS	CONDITIONS	HE-MCC-125	HE-MCC-170	UNIT
FREQUENCY RANGE		12.000 ~ 100.000	9.8304 ~ 70.000	MHz
FREQ. TOLERANCE	at 25 °C	±50 PPM*		PPM
FREQ. STABILITY (ref. @ 25°C)	per frequency range	±50 PPM*		PPM
OPERATING TEMPERATURE		-10°C to +60°C / -40°C to +85°C Optional		°C
STORAGE TEMPERATURE		-40°C to +85°C / -55°C to +125°C Optional		°C
SHUNT CAPACITANCE (C ₀)		5.0		pF
LOAD CAPACITANCE (C _L)	To be specified	18 pF standard or customer specified		pF
DRIVE LEVEL	12.000 - 100.000 MHz	0.1		mW
AGING CHARACTERISTICS		±5PPM max. @ 25°C per year		

* Tight tolerances optional - please specify

EQUIVALENT SERIES RESISTANCE

Frequency Range (MHz)	OSC. Mode	Max. ESR (Ω)	Frequency Range (MHz)	OSC Mode	Max. ESR (Ω)
9.8304 - 15.999	Fund.	60	28.000 - 34.999 (170)	3rd O / T	80
16.000 - 42.000	Fund.	40	35.000 - 70.000 (170)	3rd O / T	60
			36.000 - 100.00 (125)	3rd O / T	60

HE-MCC-125	A	-40.000F	-E
HE-MCC-125 (1.25mm height) HE-MCC-170 (1.70mm height)	Pad Layout A, B, or C (see mechanical drawing)	Frequency F: Fundamental mode (when frequency >25 MHz)	E: Extended temp. -40+85°C XX: Capacitance Load XPPM: Tight tolerance (specify)

MECHANICAL DRAWING

