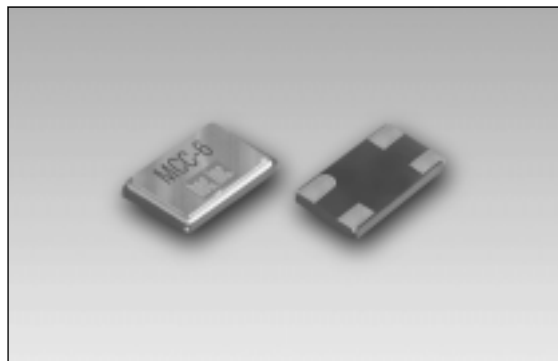


HE-MCC-6 series is the miniature ceramic base SMD crystal with a package size of only 1.1mm height, a volume of only 0.023cc, and a wide frequency range of 12.8 MHz to 80 MHz. The ceramic housing assures excellent aging characteristics and allows this crystal to be ideal for applications such as compact wireless communication products, PDA, Notebook PCs.



FEATURES:

- Only 0.023cc volume
- High frequency fundamental mode available
- Wide frequency range
- Excellent aging characteristics

ELECTRICAL SPECIFICATIONS / PART NUMBERING GUIDE

PARAMETERS	CONDITIONS	MINIMUM	STANDARD	MAXIMUM	UNIT
FREQUENCY RANGE		12.800		80.000	MHz
FREQ. TOLERANCE	at 25 °C		-50*		PPM
FREQ. STABILITY (reference @ 25°C)	-10 °C to +60 °C		-50*		PPM
OPERATING TEMPERATURE		-10 °C to +60 °C // -40 °C to +85 °C Optional			°C
STORAGE TEMPERATURE		-30 °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	10.0	18.0		pF
DRIVE LEVEL	12.800 - 80.000 MHz		0.1	0.5	mW
AGING CHARACTERISTICS			± 2 PPM max. @ 25 °C per year		

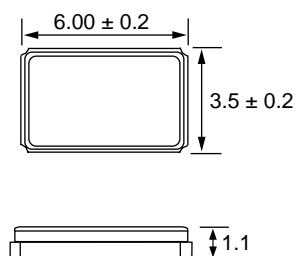
* Tight tolerances optional - please specify

EQUIVALENT SERIES RESISTANCE

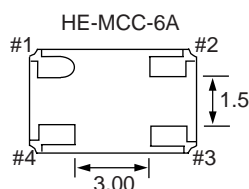
Frequency Range (MHz)	OSC. Mode	Max. ESR (Ω)	Frequency Range (MHz)	OSC Mode	Max. ESR (Ω)
12.800 - 40.000	AT Fund.	40	40.000 - 80.000	3rd O/T	60

HE-MCC-6	A	-32.000F	-16	-30PPM
HE-MCC-6	Pad Layout (A or B)	Frequency F = Fundamental (>25 MHz)	Capacitance Load 18pF = Blank, S=Series	E: Extended temperature -40+85°C XPPM: Tight tolerance (specify)

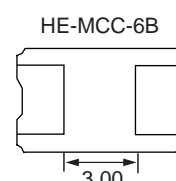
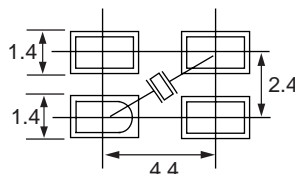
MECHANICAL DRAWING



Unit: mm



Recommended Solder Pad Layout



Recommended Solder Pad Layout

