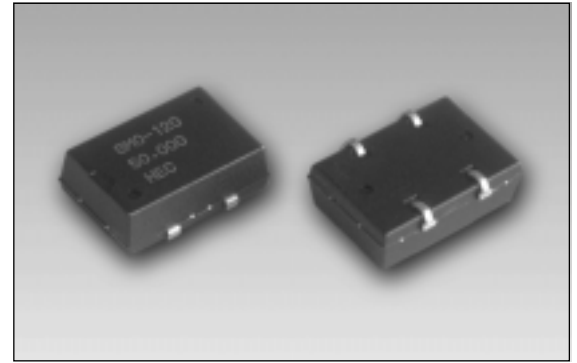


HE-SMO-120 J-LEADED SURFACE MOUNT OSCILLATOR, 5V



The HE-SMO-120 is the industry standard plastic molded surface mount oscillator with J-Leads. This thermoplastic packaging allows the HE-SMO-120 series to withstand high temperature re-flow soldering processes while also providing long term outstanding performance and reliability. Frequencies up to 125 MHz also available (see specification on page 31).



FEATURES:

- Industry standard J-Leaded footprint
- Optional ext. temp. range -40+85 °C (selected frequencies)
- Optional 45:55% symmetry available
- Tape and reel (1,000 PC per reel)

ELECTRICAL SPECIFICATIONS

PARAMETERS	CONDITIONS	SPECIFICATIONS			UNIT
		HE-SMO-120	HE-SMO-121	HE-SMO-122	
HEC SERIES		HE-SMO-120	HE-SMO-121	HE-SMO-122	
FREQUENCY RANGE		1.000 - 50.000	1.000 - 70.000	1.000 - 70.000	MHz
FREQUENCY STABILITY	All conditions	±25 (-A), ±50 (-B), ±100 (-C), OTHER (-S) - Specify spec.			PPM
OPERATING TEMP. RANGE		0°C to 70°C / -40°C to 85°C Optional (-EXT designation)			°C
STORAGE TEMP. RANGE		-50°C to +125°C			°C
OUTPUT LOAD	1 MHz - 50 MHz	10 50	10 -	- 50	TTL pF
	50.1 MHz - 70 MHz	- -	5 -	- 30	TTL pF
RISE AND FALL TIME	1 MHz - 40 MHz 40.1 MHz - 70 MHz	8 MAX. 6 MAX.			nsec
SUPPLY VOLTAGE		5.5±0.5V DC			V DC
OUTPUT VOLTAGE	V_{OH} V_{OL}	2.4 Min./ V_{DD} -0.5 Min. 0.4 Max. / 0.5 Max.	2.4 Min. 0.4 Max.	V_{DD} - 0.5 Min. 0.5 Max.	V
CURRENT CONSUMPTION	1.00 MHz - 27 MHz	15 Max.			mA
	27.1 MHz - 50 MHz	30 Max.			
	50.1 MHz - 70 MHz	45 Max.			
OUTPUT SYMMETRY		40:60			%
E/D FUNCTION		#1 Open - #3 Active #1>2.0V - #3 Active #1<0.8V - #3 High Z			

MECHANICAL DRAWING

