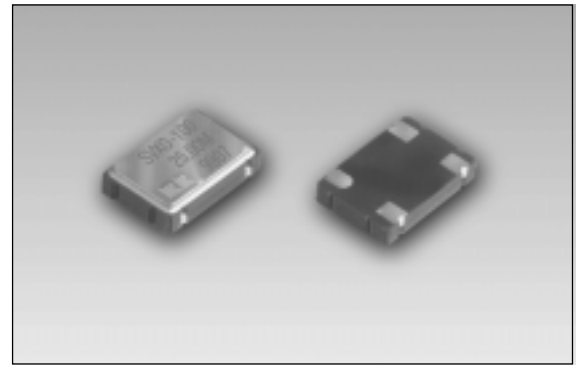


HE-SVXO-100 SMD VOLTAGE CONTROLLED OSCILLATOR, 3.3V

hec, inc.

The HE-SVXO-100 series features wide frequency coverage, tight tolerances, and a total of 180 PPM minimum VCXO range, therefore being ideal for applications such as communications equipment, video data compression technology, or PLL circuits which require a wide frequency control range. Encased in the miniature 5mm x 7mm ceramic package perfect for high density component layouts, the HE-SVXO-100 series is also built to withstand vapor phase or IR solder reflow processes.



FEATURES:

- Wide frequency control range
- Wave form symmetry of 45:55%
- HCMOS output, 15pF load
- 10mA maximum low current drain
- Available on tape and reel

ELECTRICAL SPECIFICATIONS

PARAMETERS	CONDITIONS	MINIMUM	MAXIMUM	UNIT
FREQUENCY RANGE		1.500	30.000	MHz
FREQUENCY STABILITY	@ Vc 1.65V ± 1.5V	±100 PPM: HE-SVXO-100C ± 50 PPM: HE-SVXO-100B ± 25 PPM: HE-SVXO-100A		PPM
OPERATING TEMPERATURE RANGE		0 °C to 70°C		°C
STORAGE TEMPERATURE RANGE		-40 °C to 85°C		°C
VCXO RANGE	Vc = 0V to 3.0V	-90	+90	PPM
SUPPLY CURRENT	VDD = 3.3V, no load		10	mA
CONTROL VOLTAGE		3.3 VDC ± 5%		VDC
START UP TIME	VDD = 3.13V to be 0 sec.		10	mS
OUTPUT LOAD	C-MOS level		15	pF
DUTY	1/2 V _{DD} LEVEL	45	55	%
HIGH LEVEL OUTPUT		3.0		VDC
LOW LEVEL OUTPUT			0.3	VDC
OUTPUT RISE TIME	20% ~ 80% VDD		5.0	nS
OUTPUT FALL TIME	80% ~ 20% VDD		5.0	nS
AGING		±5 PPM MAX. @ 2.5°C First Year		

MECHANICAL DRAWING

