

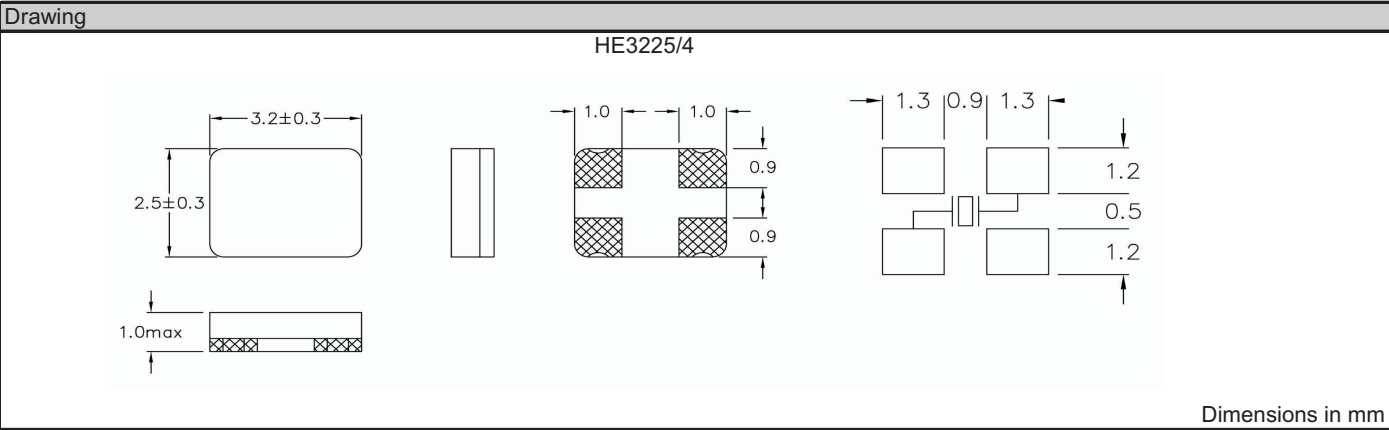
HE 3225/4

Features:

- Epoxy Resin Hermetic Seal
- Ideal for compact size applications
- Wide frequency range
- Ultra miniature size

Specifications			
	Symbol	HE3225/4	Remarks
Frequency range	f	16.000MHz – 50.000MHz	Fundamental mode
Frequency tolerance, Ta=25°C	$\Delta f/f$	$\pm 30\text{ppm} \sim \pm 50\text{ppm}$	Please specify
Load capacitance	$C_L$	10pF	Please specify
Temperature tolerance	$\Delta f/f$	$\pm 30\text{ppm} \sim \pm 50\text{ppm}$	Please specify
Temperature range	Storage temperature	$T_{STG}$	-40°C ~ +85°C
	Operating temperature	$T_{OPR}$	-10°C ~ +70°C
Drive level	Maximum drive level	$M_{DL}$	500μW
	Recommended drive level	$R_{DL}$	20μW ~100μW
Series resistance	$R_1$	As per table	25°C $\pm 3^\circ\text{C}$
Shunt capacitance	$C_0$	7pF	Max
Insulation resistance	$I_R$	500M Ohm	Min
Aging	$\Delta f_A$	$\pm 5\text{ppm/Year}$	Max

Resistance of series resonance (ESR)					
Frequency (MHz)	Mode	Ohm max	Frequency (MHz)	Mode	Ohm max
16 <= f < 20	Fundamental	100	25 <= f < 30	Fundamental	60
20 <= f < 25	Fundamental	80	30 <= f < 50	Fundamental	50



Order key								
Part	Frequency	Package	Mode of oscillation	Frequency tolerance	Temperature tolerance	Temperature range	Load capacitance	Option
Q	- 40.000000M	- HE3225/4	- F	- 30	- 30	- A	- 10	- TR
Q=Quartz	M=MHz	HE3225/4	F=fund.	$\pm\text{ppm}$ (25°C)	$\pm\text{ppm}$ (Temp. range)	A= 0°C ~ +70°C B= -10°C ~ +60°C C= -10°C ~ +70°C D= -20°C ~ +70°C E= -40°C ~ +85°C H= -20°C ~ +80°C I = -10°C ~ +50°C	pF SR=series	TR=Tape and reel X=Special options