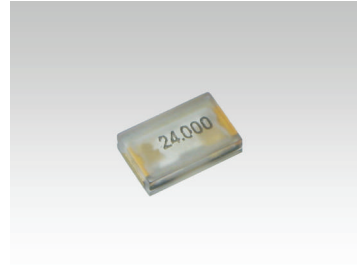


Quartz SMD



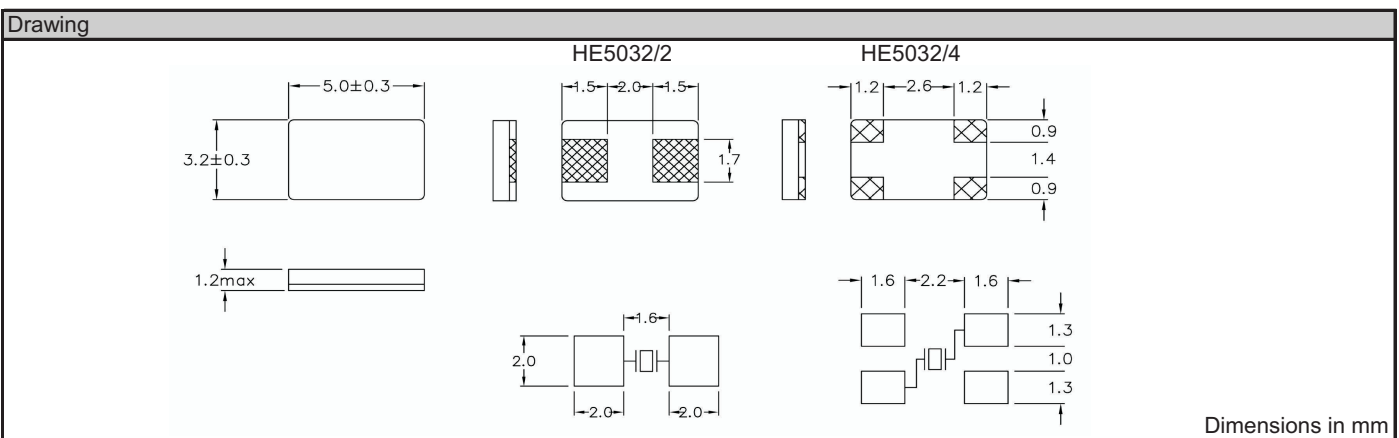
HE5032/2
HE5032/4

Features:

- Application: Bluetooth, wireless LAN
- Ultra-thin and small leadless type
- Automatic mounting is enabled by emboss taping

Specifications				
		Symbol	HE5032	Remarks
Frequency range		f	12.000MHz – 40.000MHz	Fundamental mode
Frequency tolerance, Ta=25°C		$\Delta f/f$	$\pm 20\text{ppm} \sim \pm 50\text{ppm}$	Please specify
Load capacitance		C_L	10pF ~ 30pF	Please specify
Temperature tolerance		$\Delta f/f$	$\pm 20\text{ppm} \sim \pm 50\text{ppm}$	Please specify
Temperature range	Storage temperature	T_{STG}	-40°C ~ +85°C	
	Operating temperature	T_{OPR}	-20°C ~ +70°C	Others are offered
Drive level	Maximum drive level	M_{DL}	500 μ W	
	Recommended drive level	R_{DL}	20 μ W ~ 100 μ W	
Series resistance		R_1	As per table	25°C $\pm 3^\circ$ C
Shunt capacitance		C_0	7pF	Max
Insulation resistance		I_R	500M Ohm	Min
Aging		Δf_A	$\pm 5\text{ppm/Year}$	Max

Resistance of series resonance (ESR)						
Frequency (MHz)	Mode	Ohm max		Frequency (MHz)	Mode	Ohm max
12 ≤ f < 16	Fundamental	80		16 ≤ f < 40	Fundamental	50



Order key								
Q	- 40.000000M	- HE5032/2	- F	- 30	- 30	- A	- 30	- TR
Part	Frequency	Package	Mode of oscillation	Frequency tolerance	Temperature tolerance	Temperature range	Load capacitance	Option
Q=Quartz	M=MHz	HE5032/2 HE5032/4	F=fund.	\pm ppm (25°C)	\pm 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
		/2 = 2 pads /4 = 4 pads						