

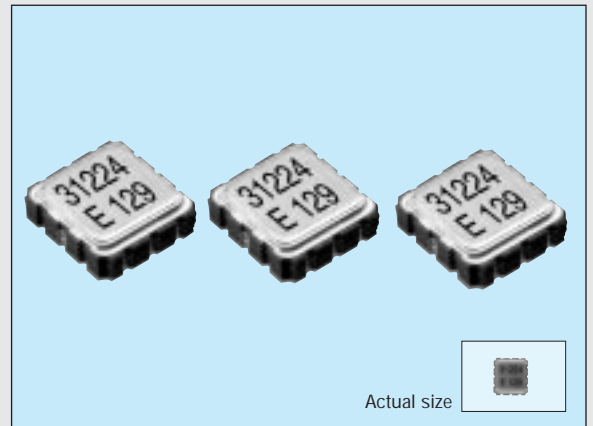
SAW RESONATOR

FS-555

Products number

Q25FS555xxxx00

- Reflow solderable SMD ceramic package.
- Capable of covering a wide frequency range, from 230 MHz to 500 MHz.
- 1.7 mm Max. thickness is equal to SMD-type IC.
- Perfect for small wireless equipment.

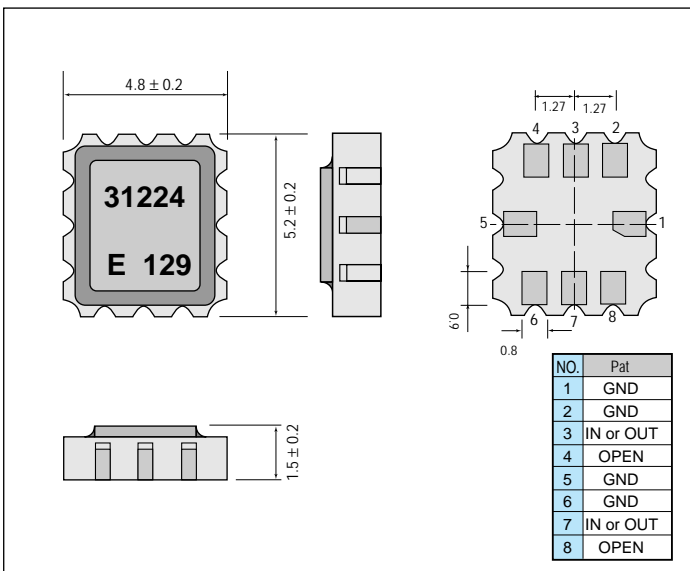


Specifications (characteristics)

Item	Symbol	Specifications	Remarks	
Nominal frequency range	f_0	230 MHz to 500 MHz		
Temperature range	Storage temperature	T_{STG}	-40 °C to +85 °C	Stored as bare product after unpacking
	Operating temperature	T_{OPR}	-40 °C to +85 °C	
Maximum drive level	GL	10 mW Max.		
Recommended drive level	DL	2 mW Typ.		
Frequency tolerance (standard)	$\Delta f/f$	$\pm 25 \times 10^{-6}$, $\pm 50 \times 10^{-6}$, $\pm 100 \times 10^{-6}$	$T_a = +25 \text{ °C} \pm 3 \text{ °C}$	
Peak temperature	θT	+25 °C \pm 15 °C		
Temperature coefficient	α	$(-3.4 \pm 0.8) \times 10^{-9} / \text{°C}^2$		
Harmonic ratio	R_s/R_1	2 Min.		
Series resistance	R_1	40 Ω Max.	230 MHz to 249.9 MHz, $T_a = +25 \text{ °C}$	
		25 Ω Max.	250 MHz to 500 MHz, $T_a = +25 \text{ °C}$	
Motional capacitance	C_1	2.6 fF Typ.	($f_0 = 312.24 \text{ MHz}$)	
Shunt capacitance	C_0	4.0 pF Typ.	($f_0 = 312.24 \text{ MHz}$)	
Insulation resistance	IR	500 M Ω Min.		
Aging	f_a	$\pm 10 \times 10^{-9} / \text{year}$ Max.	$T_a = +25 \text{ °C} \pm 3 \text{ °C}$	
Shock resistance	S.R.	$\pm 10 \times 10^{-6}$ Max.	Nine drops on a concrete from 1500 mm	

External dimensions

(Unit: mm)



Recommended soldering pattern

(Unit: mm)

