

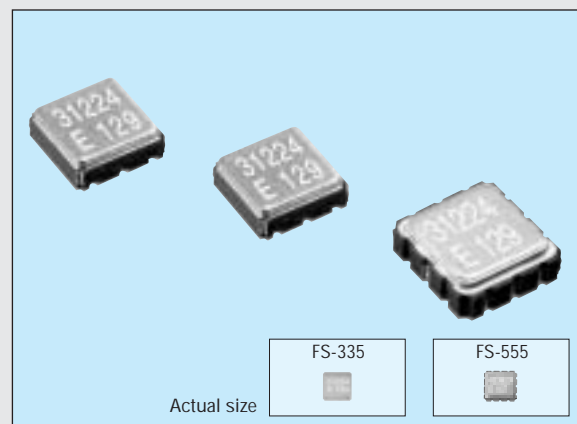
## SAW RESONATOR

**FS-335/FS-555**

Product number (please refer to page 2)

**Q25FS335xx xx x 00****Q25FS555xx xx x 00**

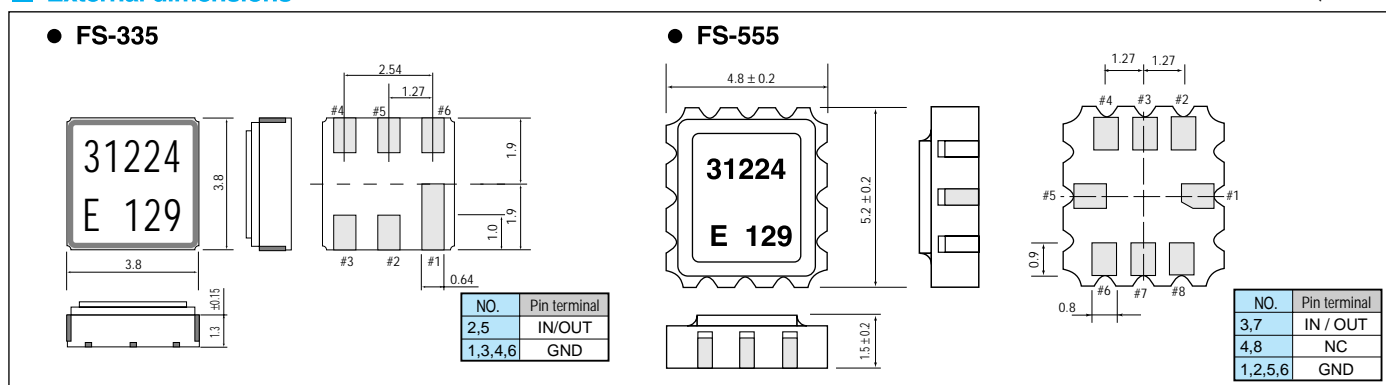
- Reflow solderable SMD ceramic package.
- Capable of covering a wide frequency range,  
FS-335 : 300 MHz to 870 MHz      FS-555 : 230 MHz to 500 MHz.
- Perfect for small wireless equipment.
- Excellent shock resistance and environmental capability (prevention for contamination)

**Specifications (characteristics)**

Item	Symbol	Specifications		Remarks
		FS-335	FS-555	
Nominal frequency range	$f_0$	300 MHz to 870 MHz	—	Please contact us for inquiries about the available frequency.
		—	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.	—	300 MHz $\leq f_0 \leq$ 500 MHz, $T_a = +25$ °C $\pm 3$ °C
		2 mW Max.	—	500 MHz < $f_0 \leq$ 870 MHz, $T_a = +25$ °C $\pm 3$ °C
		—	10 mW Max.	
Recommended drive level	DL	1 mW Typ.	2 mW Typ.	
Frequency tolerance (standard)	$\Delta f/f$	$\pm 25 \times 10^{-6}$ , $\pm 50 \times 10^{-6}$ , $\pm 100 \times 10^{-6}$	—	300 MHz $\leq f_0 \leq$ 500 MHz, $T_a = +25$ °C $\pm 3$ °C
		$\pm 100 \times 10^{-6}$	—	500 MHz < $f_0 \leq$ 870 MHz, $T_a = +25$ °C $\pm 3$ °C
		—	$\pm 25 \times 10^{-6}$ , $\pm 50 \times 10^{-6}$ , $\pm 100 \times 10^{-6}$	$T_a = +25$ °C $\pm 3$ °C
Peak temperature	$\theta T$	+25 °C $\pm 15$ °C		
Temperature coefficient	$\alpha$	$(-3.4 \pm 0.8) \times 10^{-8} / \text{°C}^2$		
Harmonic ratio	$R_s/R_1$	2 Min.		
Series resistance	$R_1$	25 $\Omega$ Max.	—	300 MHz $\leq f_0 \leq$ 500 MHz, $T_a = +25$ °C
		30 $\Omega$ Max.	—	500 MHz < $f_0 \leq$ 870 MHz, $T_a = +25$ °C
		—	40 $\Omega$ Max.	230 MHz to $f_0 <$ 250 MHz, $T_a = +25$ °C
		—	25 $\Omega$ Max.	250 MHz $\leq f_0 \leq$ 500 MHz, $T_a = +25$ °C
Aging	$f_a$	$\pm 10 \times 10^{-6} / \text{year}$ Max.		$T_a = +25$ °C $\pm 3$ °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)

