DAY 大洋电子

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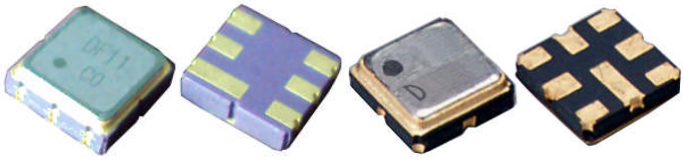
RoHS 2002/95/EC

SAW Resonators/Filter	
SF-3838C SF-3838D	**Features** ◆RoHS Compliant ◆SMD type



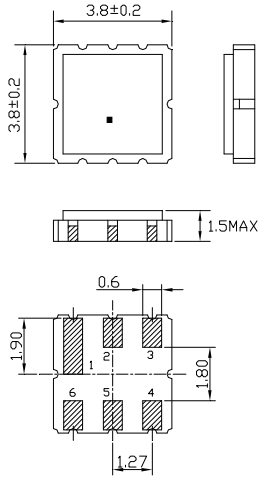
Maximum Rating

Item	Value
DC Voltage V_{DC}	10V
AC Voltage V_{PP}	10V (50Hz/60Hz)
Operation Temperature	-40℃ to +85℃
Storage Temperature	-45℃ to +90℃
RF Power Dissipation	0dBm

Electronic Characteristics

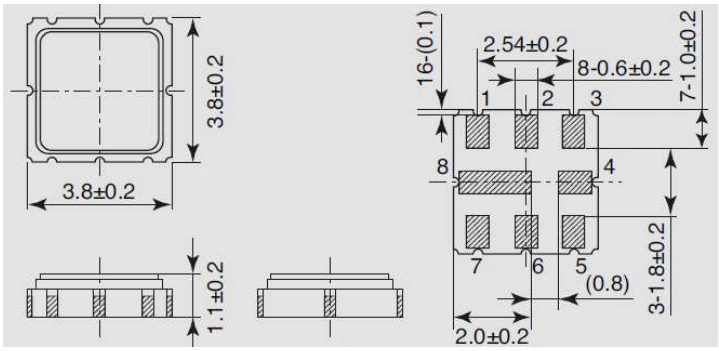
Item	Specifications
Nominal Frequency Range	243.95MHz to 959.500MHz
Tolerance	±75KHz

Dimensions(Unit: mm)



Pin No.	Function
Pin 2	Input
Pin 5	Output
Other	Ground

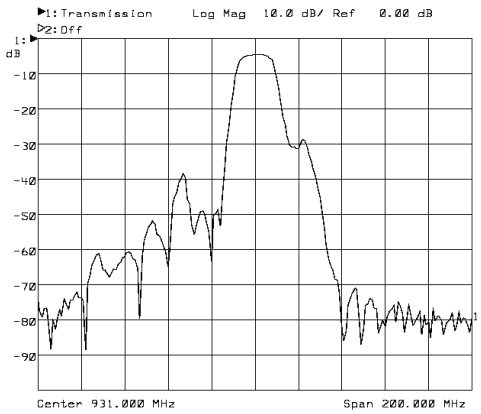
(SF-3838C)



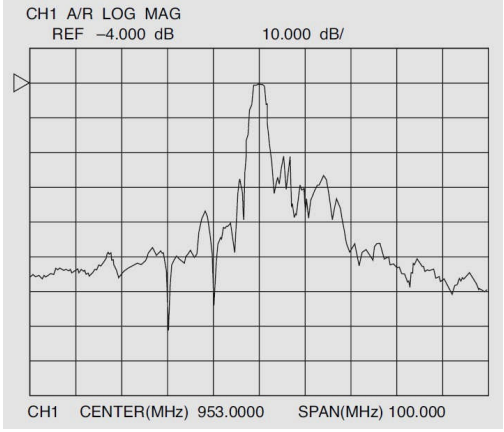
Pin No.	Function
Pin 1	Input
Pin 5	Output
Other	Ground

(SF-3838D)

Frequency Characteristics



(SF-3838C)



(SF-3838D)

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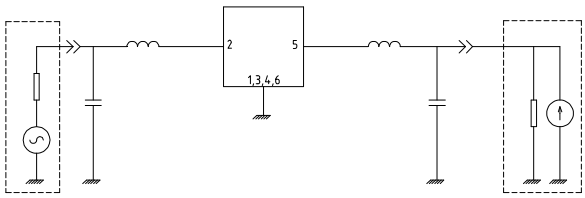
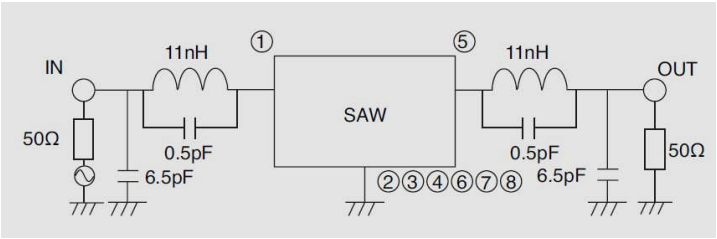
Test Circuit



(SF-3838C)

Note: Reference temperature shall be 25±2℃. However, the measurement may be carried out at 5℃ to 35℃ unless there is a dispute



(SF-3838D)

Note: Reference temperature shall be 25±2℃. However, the measurement may be carried out at 5℃ to 35℃ unless there is a dispute

Reliability

Mechanical Shock	The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s^2, duration 6 milliseconds.
Vibration Fatigue	The components shall remain within the electrical specifications after loaded vibration at 20 Hz, amplitude 1.5mm, for 2 hours.
Terminal Strength	The components shall remain within the electrical specifications after pulled 2 kgs weight for 10 seconds towards an axis of each terminal.
High Temperature Storage	The components shall remain within the electrical specifications after being kept at the 85℃±2℃ for 48 hours, then kept at room temperature for 2 hours.
Low Temperature Storage	The components shall remain within the electrical specifications after being kept at the -40℃±2℃ for 48 hours, then kept at room temperature for 2 hours.
Temperature Cycle	The components shall remain within the electrical specifications after 5 cycles of high and low temperature testing (one cycle:80℃ for 30 minutes →25℃ for 5 minutes →-25℃ for 30 minutes) then kept at room temperature for 2 hours.
Solder-heat Resistance	The components shall remain within the electrical specifications after dipped in the solder at 260℃ for 10±1 seconds, then kept at room temperature for 2 hours. (Terminal must be dipped leaving 1.5 mm from the case).
Solderability	Solderability of terminal shall be kept at more than 80% after dipped in the solder flux at 230℃±5℃ for 5±1 seconds.

Remarks

Static voltage	Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.
Ultrasonic cleaning	Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.
Soldering	Only leads of component may be soldered. Please avoid soldering another part of component.