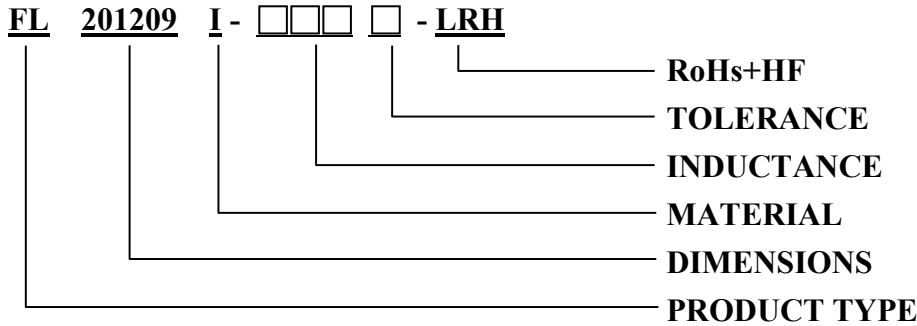


SPECIFICATION FOR APPROVAL

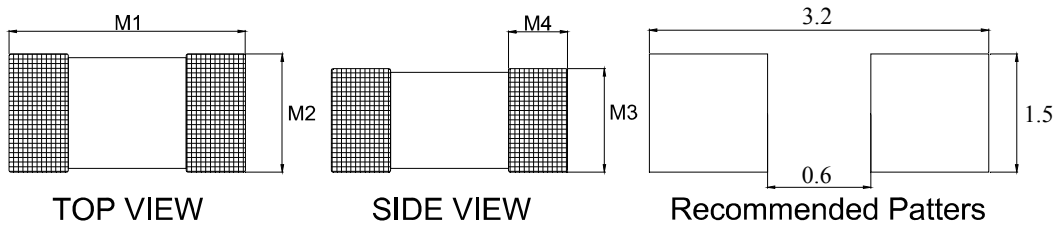
※This is a RoHS and REACH compliant product whose related documents are available on request.

※Graphic is only for dimensionally application.

1. PART NUMBERING IDENTIFICATION



2. MECHANICAL DIMENSION



UNIT: mm

	DIM.	TOL.
M1	2.00	±0.20
M2	1.25	±0.20
M3	0.90	±0.20
M4	0.50	±0.30

3. RATING TEMPERATURE

OPERATING TEMPERATURE RANGE: -55°C ~ +125°C.

STORAGE CONDITION: LESS THAN 40°C AND 70% RH

4. TEST INSTRUMENT

4-1. HP4291B RF IMPEDANCE / MATERIAL ANALYZER

4-2. HP4338A/B MILLIOHMMETER

4-3. Agilent 8720ES S-PARAMETER NETWORK ANALYZER

4-4. HP6632B SYSTEM DC POWER SUPPLY

SPECIFICATION FOR APPROVAL

5. ELECTRICAL SPECIFICATION

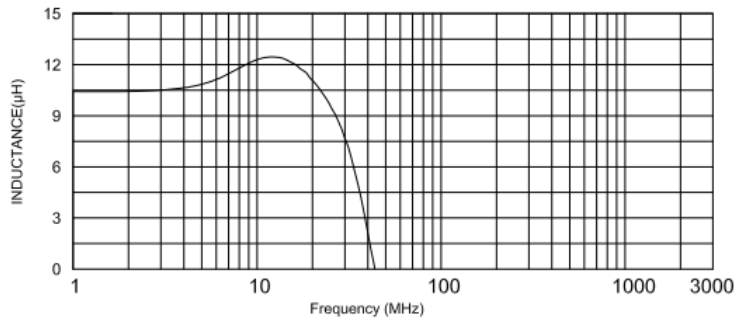
Part number	Inductance (μH) $\pm 20\%$	Test Frequency (MHz)	Q MIN.	SRF (MHz) MIN.	DC Resistance (Ω) MAX.	Rated Current (mA)
FL201209I-100M-LRH	10	2	50	24	0.50	125

NOTE:

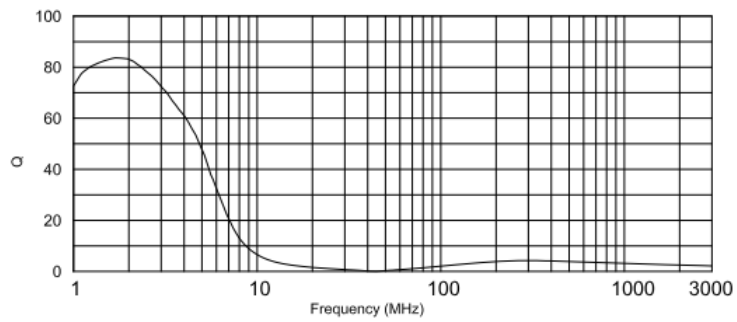
1. Test level: 100 mV

6. ELECTRICAL CURVE

INDUCTANCE vs. FREQUENCY



Q vs. FREQUENCY CHARACTERISTICS



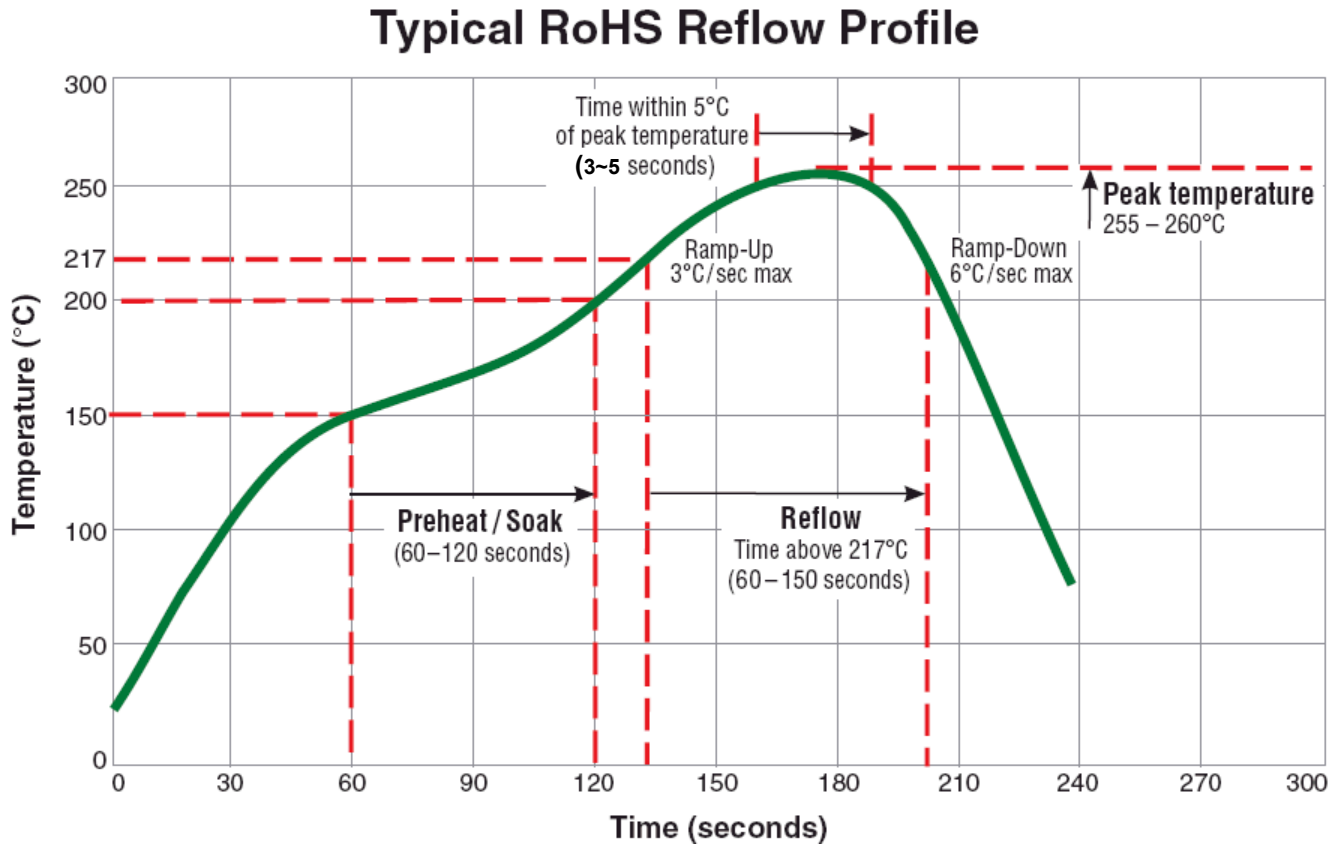
SPECIFICATION FOR APPROVAL

7. RELIABILITY PERFORMANCE

Test Item	Test Condition	Criteria
Temperature Cycle	a. Temperature: $-40 \sim +85^{\circ}\text{C}$ b. Cycle: 100 cycles c. Dwell time: 30minutes Measurement: at ambient temperature 24 hrs after test completion	a. No mechanical damage b. Induction value should be within $\pm 10\%$ of the initial value c. Q vale should be within $\pm 30\%$ of the initial value
Operational Life	a. Temperature: $125^{\circ}\text{C} \pm 5^{\circ}\text{C}$ b. Test time: 1000 hrs c. Apply current: full rated current Measurement: at ambient temperature 24 hrs after test completion	a. No mechanical damage b. Induction value should be within $\pm 10\%$ of the initial value c. Q vale should be within $\pm 30\%$ of the initial value
Biased Humidity	a. Temperature: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ b. Humidity: 90 ~ 95% RH c. Test time: 1000 hrs d. Apply current: full rated current Measurement: at ambient temperature 24 hrs after test completion	a. No mechanical damage b. Induction value should be within $\pm 10\%$ of the initial value c. Q vale should be within $\pm 30\%$ of the initial value
Resistance to Solder Heat	a. Solder temperature: $260 \pm 5^{\circ}\text{C}$ b. Flux: Rosin c. DIP time: 10 ± 1 sec	a. More than 95% of terminal electrode should be covered with new solder b. No mechanical damage c. Induction value should be within $\pm 10\%$ of the initial value d. Q vale should be within $\pm 30\%$ of the initial value
Adhesive Test	a. Reflow temperature: 245°C It shall be Soldered on the substrate applying direction parallel to the substrate b. Apply force(F): 5 N Test time: 10 sec	a. No mechanical damage b. Soldering the products on PCB after the pulling test force > 5 N
Steam Aging Test	a. Temperature: 93°C b. Test time: 8 hrs c. Solder temperature: $235 \pm 5^{\circ}\text{C}$ d. Flux: Rosin e. DIP time: 5 ± 1 sec	More than 95% of terminal electrode should be covered with new solder

SPECIFICATION FOR APPROVAL

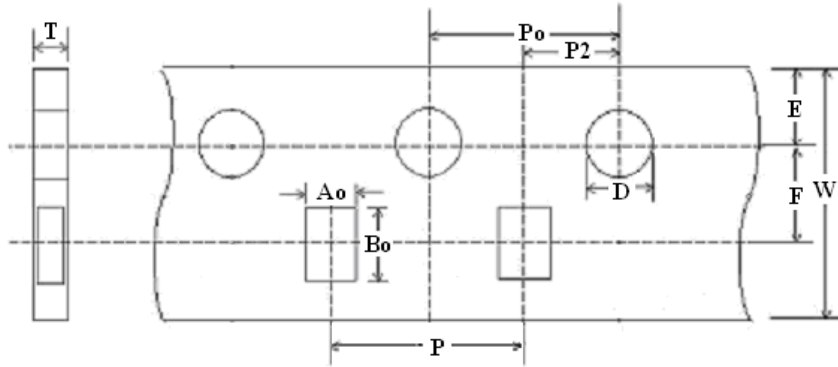
8. TYPICAL RoHS REFLOW PROFILE



SPECIFICATION FOR APPROVAL

9. PACKING

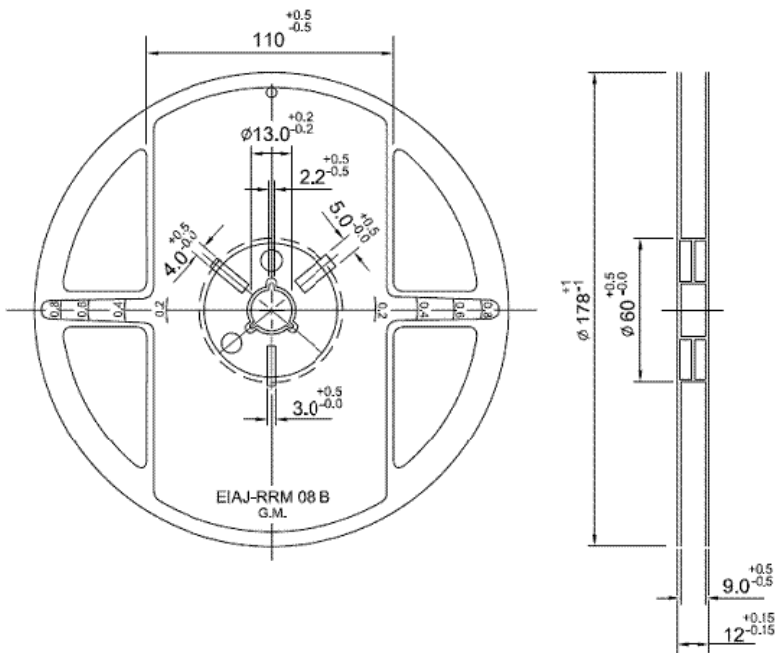
9.1 PAPER CARRIER



UNIT : mm

W	P	E	F	D	P ₀	P ₂	A ₀	B ₀	T
8.00±0.10	4.00±0.10	1.75±0.10	3.50±0.10	1.56±0.10	4.00±0.10	2.00±0.10	1.50±0.05	2.30±0.05	0.95±0.05

9.2 REEL DIMENSIONS



9.3 Packaging Quantity

Reel	Inner Box
4,000 Pcs	5 Reels