

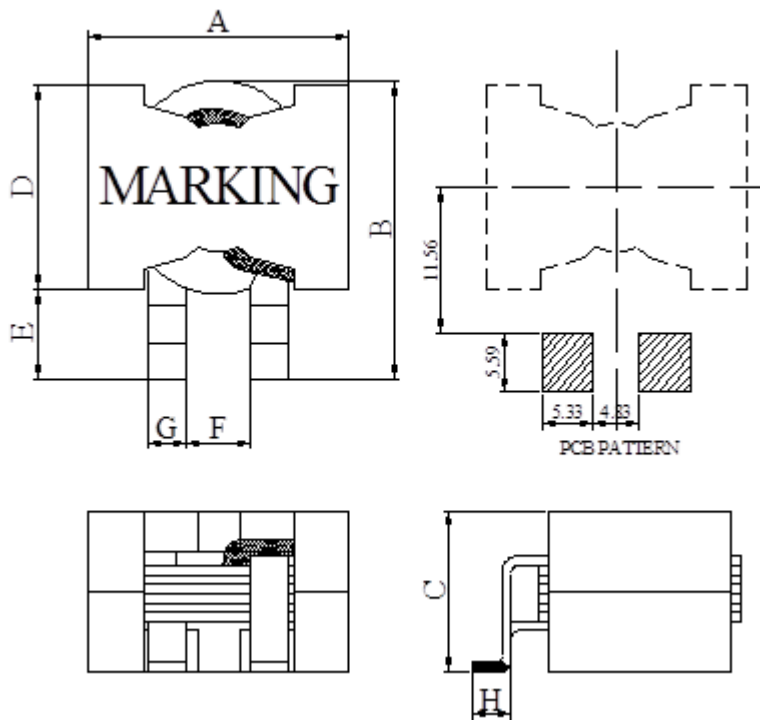
1. Part No. Expression:

S P Q 28 14 1 R 5 K Z F

(a) (b) (c) (d)(e)(f)

- a) Series Code
- b) Dimension Code
- c) Inductance Code
- d) Tolerance Code
- e) Internal Code
- f) Packaging Code

2. Configuration & Dimensions:



Height C
 SPQ2814-Z- 14.22 Max
 SPQ2814-X- 14.22 Max
 SPQ2817-Z- 16.64 Max

Marking:

28□□1R5K□

SPW YYWW

Unit: mm

A	B	D	E	F	G	H
27.90 Max	27.94 Max	19.30 Max	6.90 Ref	6.62 Ref	3.80 Ref	3.80 Ref

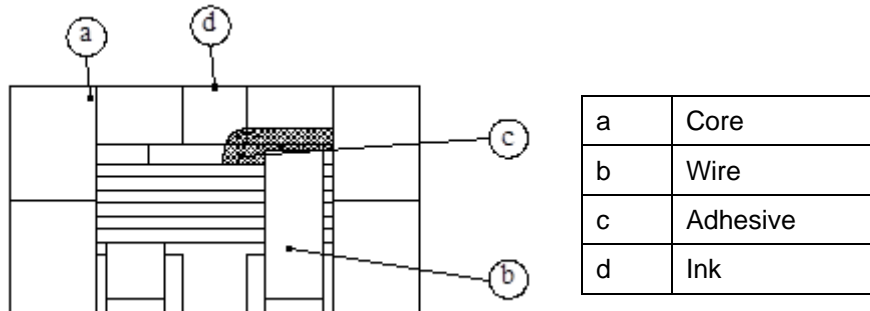
3. Schematic:



NOTE: Specifications subject to change without notice. Please check our website for latest information.



4. Material List:



5. General Specification:

- (a) Storage Temp.: -40°C - 125°C
- (b) Operating Temp. : -40°C to +85°C with (40°C rise) I_{rms} current, +85°C to +125°C with derated current
- (c) Humidity Range : 60% RH
- (d) Storage condition (component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity : 60% RH

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6. Electrical Characteristics:

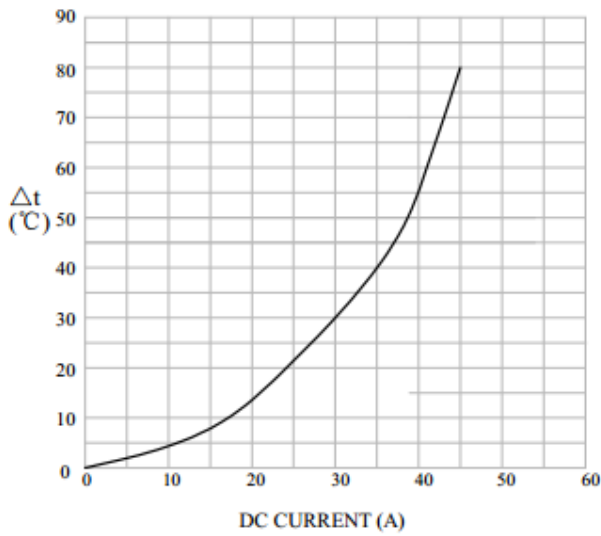
Part No.:	Inductance (μ H) @500KHz/0.1V	I rms(A)		I sat(A)			DCR (m Ω) Max.	SRF (MHz) Typ.
		20°C Typ.	40°C Typ.	10% Typ.	20% Typ.	30% Typ.		
SPQ28141R5KZF	1.5 \pm 10%	20.0	30.0	100	>100	>100	1.62	60.0
SPQ28142R2KXF	2.2 \pm 10%	20.0	30.0	100	>100	>100	2.01	40.0
SPQ28142R2KZF	2.2 \pm 10%	20.0	30.0	82.0	84.0	84.8	1.62	50.0
SPQ28173R3KZF	3.3 \pm 10%	20.0	28.0	91.0	92.5	93.6	2.82	40.0
SPQ28143R3KXF	3.3 \pm 10%	20.0	30.0	62.0	66.9	68.4	2.01	30.0
SPQ28143R3KZF	3.3 \pm 10%	20.0	30.0	48.0	54.0	57.0	1.62	40.0
SPQ28174R7KZF	4.7 \pm 10%	20.0	28.0	59.0	61.2	62.4	2.82	30.0
SPQ28144R7KXF	4.7 \pm 10%	20.0	30.0	42.0	48.0	50.1	2.01	25.0
SPQ28144R7KZF	4.7 \pm 10%	20.0	30.0	33.0	36.9	39.0	1.62	30.0
SPQ28176R8KZF	6.8 \pm 10%	20.0	28.0	42.0	45.0	45.9	2.82	25.0
SPQ28146R8KXF	6.8 \pm 10%	20.0	30.0	30.0	34.5	36.2	2.01	20.0
SPQ28146R8KZF	6.8 \pm 10%	20.0	30.0	22.0	26.0	27.8	1.62	25.0
SPQ2817100KZF	10 \pm 10%	20.0	28.0	28.0	31.2	32.1	2.82	20.0
SPQ2814100KXF	10 \pm 10%	20.0	30.0	18.0	21.5	23.4	2.01	15.0
SPQ2814100KZF	10 \pm 10%	20.0	30.0	13.0	16.2	17.6	1.62	20.0
SPQ2817150KZF	15 \pm 10%	20.0	28.0	18.0	21.2	21.9	2.82	16.0
SPQ2814150KXF	15 \pm 10%	20.0	30.0	11.5	14.0	15.2	2.01	12.0
SPQ2814150KZF	15 \pm 10%	20.0	30.0	7.50	9.80	11.0	1.62	15.0
SPQ2817220KZF	22 \pm 10%	20.0	28.0	12.0	14.0	15.0	2.82	15.0
SPQ2814220KXF	22 \pm 10%	20.0	30.0	7.00	8.60	9.60	2.01	10.0
SPQ2814220KZF	22 \pm 10%	20.0	30.0	4.50	6.00	6.80	1.62	10.0
SPQ2817330KZF	33 \pm 10%	20.0	28.0	7.00	8.70	9.60	2.82	10.0
SPQ2814330KXF	33 \pm 10%	20.0	30.0	4.00	5.10	5.90	2.01	8.0
SPQ2814330KZF	33 \pm 10%	20.0	30.0	2.00	2.60	3.30	1.62	7.0

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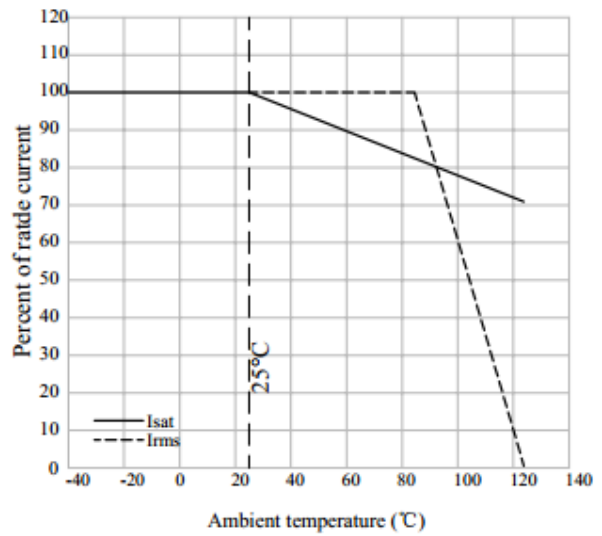


7. Characteristics Curves:

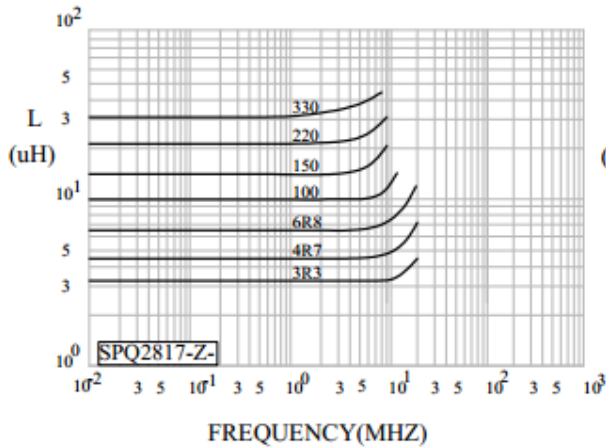
@ TEMP. RISE VS. DC CURRENT RESPONSE CURVE



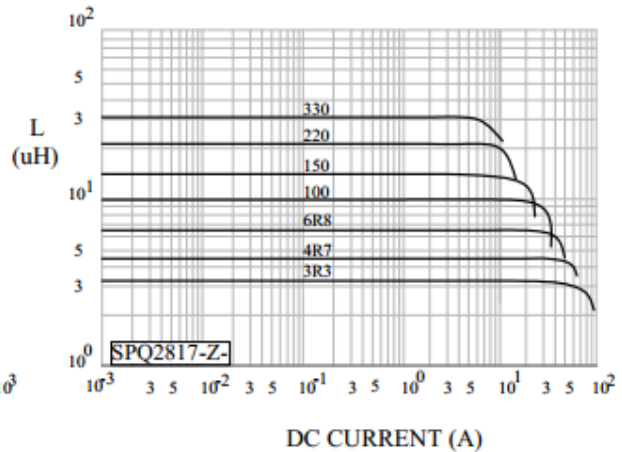
@ CURRENT DERATING RESPONSE CURVE



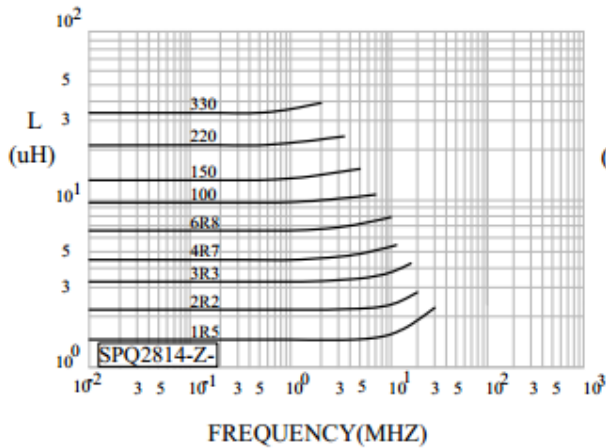
@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



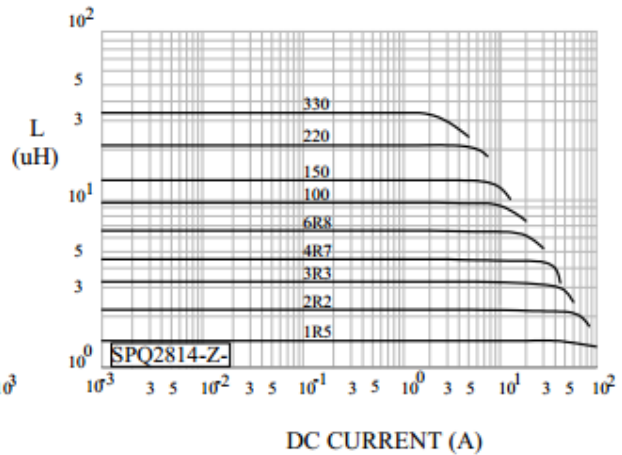
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



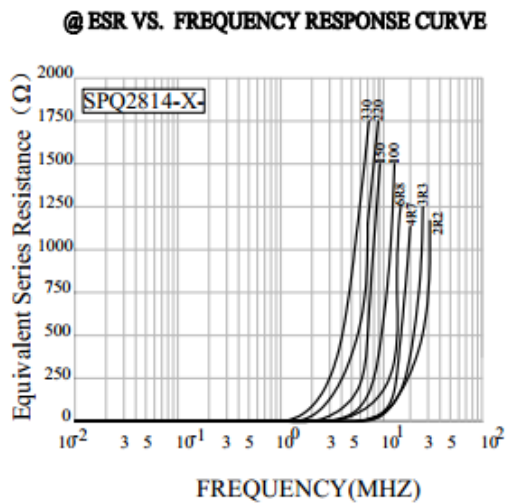
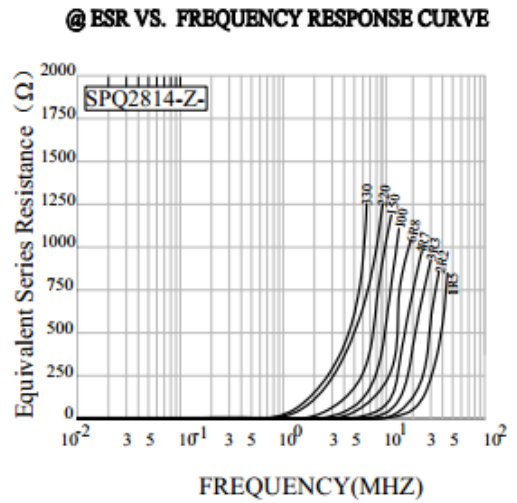
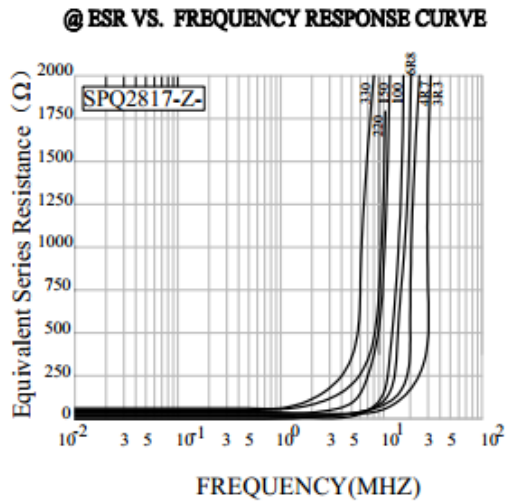
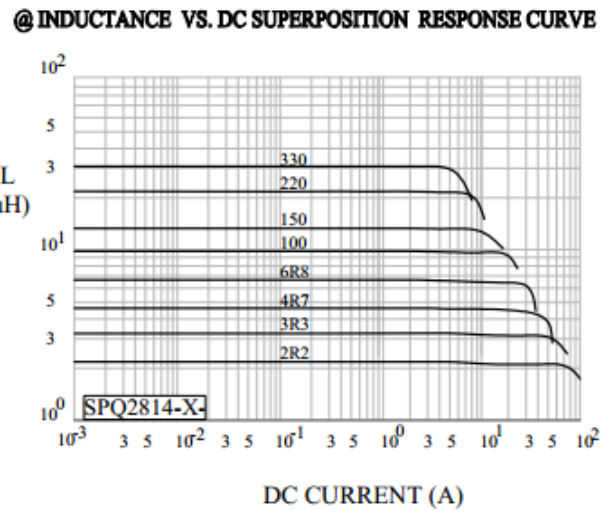
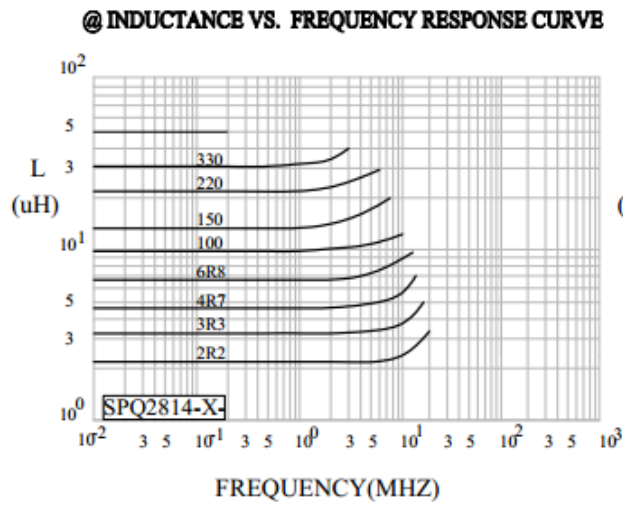
@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



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