

## SMD Power chokes- SNR4010-SERIES

### Features

1. This specification applies Low Profile Power Inductors
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

### Applications

Smartphones, tablets and wearable devices  
DSC, camcorders  
DC / DC converters, etc.

### Product Identification

SNR 4010 B -100M-TQ

SNR: SERIES NAME

4010: DIMENSION SIZE CODE

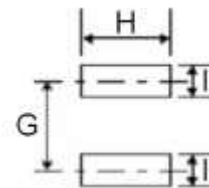
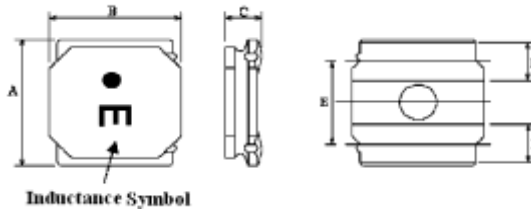
A: CORE TYPE

100: INDUCTANCE CODE.

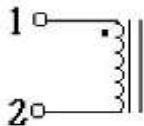
M: TOLERANCE, K=10% M=20% ±30%(N)

TQ: Material CODE

### Dimensions (mm)



### SCHEMATIC



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SNR4010B	4.0±0.2	4.0±0.2	1.0 max.	1.1±0.2	2.5±0.2
SNR4012B	4.0±0.2	4.0±0.2	1.2 max.	1.1±0.2	2.5±0.2
SNR4018B	4.0±0.2	4.0±0.2	1.8 max.	1.1±0.2	2.5±0.2

G(mm)	H(mm)	I(mm)
2.8 ref.	3.7 ref.	1.2 ref.

SUNLEI Part Number	Inductance Symbol	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz)	DCR (Ω) ± 20%	I sat (A)	I rms (A)
					min.			
SNR4010B-1R0Y-TQ	A	1	±30%	1V100K	116	0.056	2	1.9
SNR4010B-2R2M-TQ	C	2.2	±20%	1V100K	73	0.085	1.2	1.5
SNR4010B-3R3M-TQ	E	3.3	±20%	1V100K	58	0.1	1.1	1.4
SNR4010B-4R7M-TQ	H	4.7	±20%	1V100K	47	0.14	0.95	1.2
SNR4010B-6R8M-TQ	I	6.8	±20%	1V100K	38	0.2	0.8	1
SNR4010B-100M-TQ	K	10	±20%	1V100K	31	0.3	0.62	0.75
SNR4010B-150M-TQ	M	15	±20%	1V100K	24	0.43	0.54	0.6
SNR4010B-220M-TQ	N	22	±20%	1V100K	19	0.57	0.45	0.5

Note:

1. Isat: Based on inductance change ( $\Delta L/L_0: \leq -30\%$ ) @ ambient temp. 25°C Irms:
2. Based on temperature rise ( $\Delta T: 40^\circ\text{C}$ .) Max

## SMD Power chokes- SNR4012-SERIES

### Features

1. This specification applies Low Profile Power Inductors
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

### Applications

Smartphones, tablets and wearable devices  
 DSC, camcorders  
 DC / DC converters, etc.

### Product Identification

SNR 4012 B -100M-TQ

SNR: SERIES NAME

4010: DIMENSION SIZE CODE

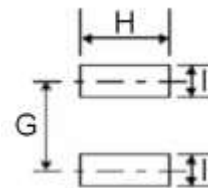
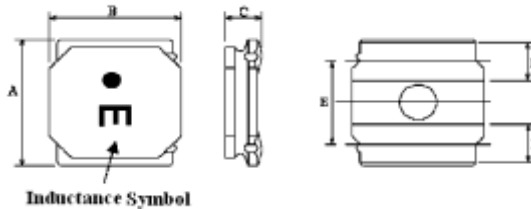
A: CORE TYPE

100: INDUCTANCE CODE.

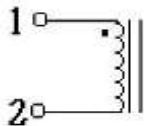
M: TOLERANCE, K=10% M=20% ±30%(N)

TQ: Material CODE

### Dimensions (mm)



### SCHEMATIC



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SNR4010B	4.0±0.2	4.0±0.2	1.0 max.	1.1±0.2	2.5±0.2
SNR4012B	4.0±0.2	4.0±0.2	1.2 max.	1.1±0.2	2.5±0.2
SNR4018B	4.0±0.2	4.0±0.2	1.8 max.	1.1±0.2	2.5±0.2

G(mm)	H(mm)	I(mm)
2.8 ref.	3.7 ref.	1.2 ref.

SUNLEI Part Number	Inductance Symbol	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz)		DCR (Ω) ± 20%	I sat (A)	I rms (A)
					min.				
SNR4012B-1R0Y-TQ	A	1	±30%	1V100K	100		0.042	2.8	2.2
SNR4012B-2R2M-TQ	C	2.2	±20%	1V100K	70		0.06	1.65	1.9
SNR4012B-3R3M-TQ	E	3.3	±20%	1V100K	60		0.07	1.4	1.7
SNR4012B-4R7M-TQ	H	4.7	±20%	1V100K	45		0.095	1.2	1.5
SNR4012B-6R8M-TQ	I	6.8	±20%	1V100K	35		0.125	0.9	1.3
SNR4012B-100M-TQ	K	10	±20%	1V100K	30		0.17	0.8	1.1
SNR4012B-150M-TQ	M	15	±20%	1V100K	24		0.26	0.65	0.75
SNR4012B-220M-TQ	N	22	±20%	1V100K	18		0.4	0.5	0.62

Note:

1. Isat: Based on inductance change ( $\Delta L/L_0: \leq -30\%$ ) @ ambient temp. 25°C Irms:
2. Based on temperature rise ( $\Delta T: 40^\circ\text{C}$ .) Max

## SMD Power chokes- SNR4018-SERIES

### Features

1. This specification applies Low Profile Power Inductors
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

### Applications

Smartphones, tablets and wearable devices  
 DSC, camcorders  
 DC / DC converters, etc.

### Product Identification

SNR 4018 B -100M-TQ

SNR: SERIES NAME

4010: DIMENSION SIZE CODE

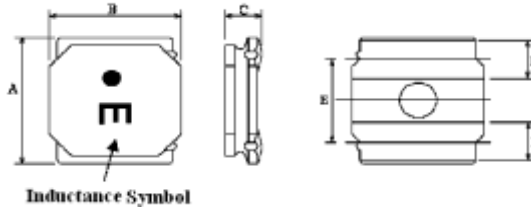
A: CORE TYPE

100: INDUCTANCE CODE.

M: TOLERANCE, K=10% M=20% ±30%(N)

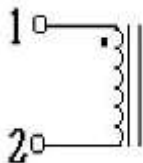
TQ: Material CODE

### Dimensions (mm)



Inductance Symbol

### SCHEMATIC



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
SNR4010B	4.0±0.2	4.0±0.2	1.0 max.	1.1±0.2	2.5±0.2
SNR4012B	4.0±0.2	4.0±0.2	1.2 max.	1.1±0.2	2.5±0.2
SNR4018B	4.0±0.2	4.0±0.2	1.8 max.	1.1±0.2	2.5±0.2

G(mm)	H(mm)	I(mm)
2.8 ref.	3.7 ref.	1.2 ref.

SUNLEI Part Number	Inductance Symbol	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz)		DCR (Ω) ± 20%	I sat (A)	I rms (A)
					min.				
SNR4018B-1R0Y-TQ	A	1	±30%	1V100K	90		0.027	4	3.2
SNR4018B-1R5Y-TQ	B	1.5	±30%	1V100K	75		0.037	3.3	2.4
SNR4018B-2R2M-TQ	C	2.2	±20%	1V100K	60		0.042	3	2.2
SNR4018B-3R3M-TQ	E	3.3	±20%	1V100K	45		0.055	2.3	2
SNR4018B-4R7M-TQ	H	4.7	±20%	1V100K	35		0.07	2	1.7
SNR4018B-6R8M-TQ	I	6.8	±20%	1V100K	30		0.098	1.6	1.45
SNR4018B-100M-TQ	K	10	±20%	1V100K	25		0.15	1.3	1.2
SNR4018B-150M-TQ	M	15	±20%	1V100K	18		0.21	1.1	0.85
SNR4018B-220M-TQ	N	22	±20%	1V100K	15		0.29	0.9	0.72
SNR4018B-330M-TQ	P	33	±20%	1V100K	12		0.46	0.7	0.55
SNR4018B-470M-TQ	S	47	±20%	1V100K	10		0.65	0.6	0.44
SNR4018B-680M-TQ	T	68	±20%	1V100K	8.3		1	0.52	0.32
SNR4018B-101M-TQ	V	100	±20%	1V100K	6.5		1.45	0.42	0.28
SNR4018B-151M-TQ	W	150	±20%	1V100K	5.5		2.3	0.34	0.22
SNR4018B-221M-TQ	X	220	±20%	1V100K	4		3.8	0.275	0.17

Note:

1. Isat: Based on inductance change ( $\Delta L/L0: \leq -30\%$ ) @ ambient temp. 25°C Irms:
2. Based on temperature rise ( $\Delta T: 40^\circ\text{C}.$ ) Max