

## SMD Power chokes- SNR5010-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 5010 B -100M-TQ

SNR: SERIES NAME

5010: DIMENSION SIZE CODE

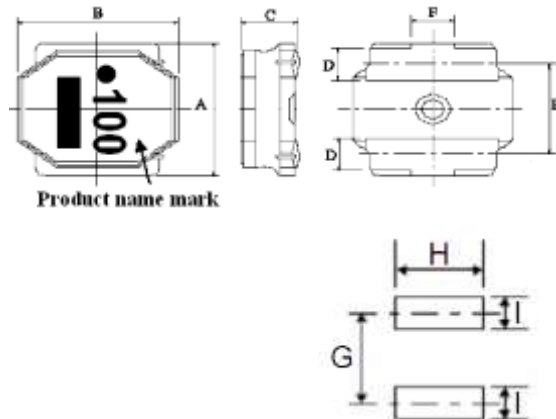
A: CORE TYPE

100: INDUCTANCE CODE.

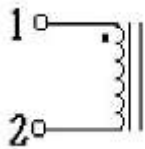
M: TOLERANCE, K=10% M=20% ±30% (N)

TQ: Material CODE

### Dimensions (mm)



### SCHEMATIC



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SNR5010B	4.9±0.2	4.9±0.2	1.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5012B	4.9±0.2	4.9±0.2	1.2 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5020B	4.9±0.2	4.9±0.2	2.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5040B	4.9±0.2	4.9±0.2	4.0 max.	1.2±0.2	3.3±0.2	1.3 typ.

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

SUNLEI Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ± 20%	I sat (A)	I rms (A)
SNR5010B-1R0Y-TQ	1	±30%	1V100K	95	0.07	2.35	1.75
SNR5010B-2R2M-TQ	2.2	±30%	1V100K	65	0.105	1.5	1.4
SNR5010B-3R3M-TQ	3.3	±20%	1V100K	42	0.125	1.4	1.25
SNR5010B-4R7M-TQ	4.7	±20%	1V100K	37	0.145	1.2	1.15
SNR5010B-6R8M-TQ	6.8	±20%	1V100K	33	0.185	1	1
SNR5010B-100M-TQ	10	±20%	1V100K	23	0.25	0.85	0.9
SNR5010B-150M-TQ	15	±20%	1V100K	19	0.4	0.68	0.65
SNR5010B-220M-TQ	22	±20%	1V100K	15	0.6	0.55	0.45

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

## SMD Power chokes- SNR5012-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 5012 B -100M-TQ

SNR: SERIES NAME

5012: DIMENSION SIZE CODE

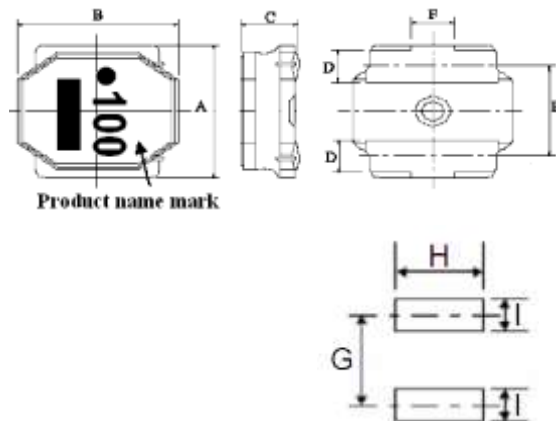
A: CORE TYPE

100: INDUCTANCE CODE.

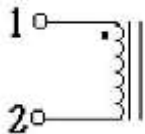
M: TOLERANCE, K=10% M=20% ±30% (N)

TQ: Material CODE

### Dimensions (mm)



### SCHEMATIC



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SNR5010B	4.9±0.2	4.9±0.2	1.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5012B	4.9±0.2	4.9±0.2	1.2 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5020B	4.9±0.2	4.9±0.2	2.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5040B	4.9±0.2	4.9±0.2	4.0 max.	1.2±0.2	3.3±0.2	1.3 typ.

G(mm)	H(mm)	I(mm)
3.6 ref.	4.0 ref.	1.5 ref.

SUNLEI Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ± 20%	I sat (A)	I rms (A)
SNR5012B-1R0Y-TQ	1	±30%	1V100K	100	0.053	4.5	2.3
SNR5012B-2R2M-TQ	2.2	±20%	1V100K	70	0.085	3.1	2
SNR5012B-3R3M-TQ	3.3	±20%	1V100K	48	0.16	2.4	1.45
SNR5012B-4R7M-TQ	4.7	±20%	1V100K	40	0.18	2.2	1.4
SNR5012B-6R8M-TQ	6.8	±20%	1V100K	36	0.26	1.7	1.1
SNR5012B-100M-TQ	10	±20%	1V100K	26	0.42	1.4	0.85
SNR5012B-150M-TQ	15	±20%	1V100K	22	0.67	1.2	0.64

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- SNR5020-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 5020 B -100M-TQ

SNR: SERIES NAME

5020: DIMENSION SIZE CODE

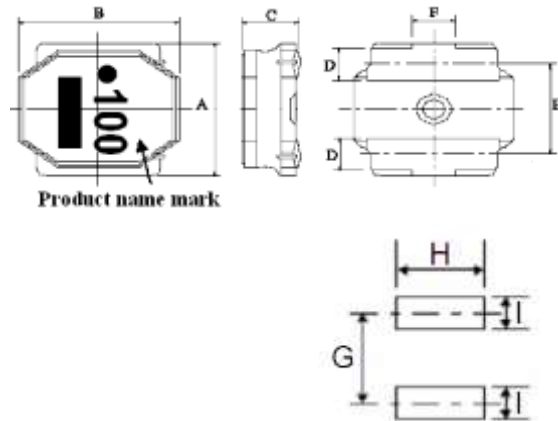
A: CORE TYPE

100: INDUCTANCE CODE.

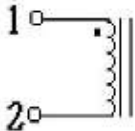
M: TOLERANCE, K=10% M=20%, ±30%(N)

TQ: Material CODE

### Dimensions (mm)



### SCHEMATI



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SNR5010B	4.9±0.2	4.9±0.2	1.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5012B	4.9±0.2	4.9±0.2	1.2 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5020B	4.9±0.2	4.9±0.2	2.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5040B	4.9±0.2	4.9±0.2	4.0 max.	1.2±0.2	3.3±0.2	1.3 typ.

G(mm)	H(mm)	I(mm)
3.6 ref.	4.0 ref.	1.5 ref.

SUNLEI Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ± 20%	I sat (A)	I rms (A)
SNR5020B-1R0Y-TQ	1	±30%	1V100K	81	0.021	4	3.6
SNR5020B-2R2M-TQ	1.5	±30%	1V100K	68	0.026	3.35	3.2
SNR5020B-2R2M-TQ	2.2	±30%	1V100K	57	0.035	2.9	2.9
SNR5020B-3R3M-TQ	3.3	±30%	1V100K	46	0.048	2.4	2.4
SNR5020B-4R7M-TQ	4.7	±20%	1V100K	37	0.06	2.0	2.0
SNR5020B-6R8M-TQ	6.8	±20%	1V100K	30	0.09	1.6	1.65
SNR5020B-100M-TQ	10	±20%	1V100K	24	0.12	1.3	1.45
SNR5020B-150M-TQ	15	±20%	1V100K	20	0.165	1.1	1.2
SNR5020B-220M-TQ	22	±20%	1V100K	17	0.26	0.9	1.0

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- SNR5040-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 5040 B -100M-TQ

SNR: SERIES NAME

5040: DIMENSION SIZE CODE

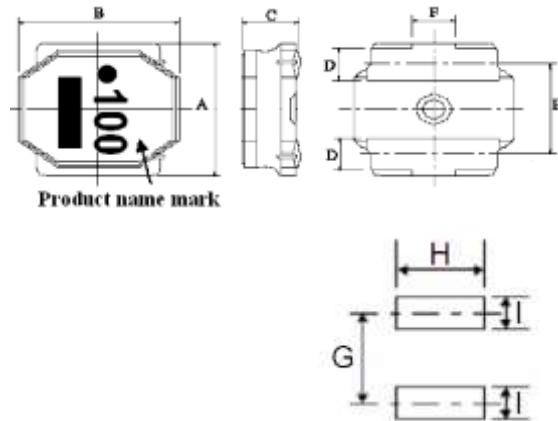
A: CORE TYPE

100: INDUCTANCE CODE.

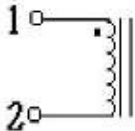
M: TOLERANCE, K=10% M=20%, ±30%(N)

TQ: Material CODE

### Dimensions (mm)



### SCHEMATI



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SNR5010B	4.9±0.2	4.9±0.2	1.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5012B	4.9±0.2	4.9±0.2	1.2 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5020B	4.9±0.2	4.9±0.2	2.0 max.	1.2±0.2	3.3±0.2	1.3 typ.
SNR5040B	4.9±0.2	4.9±0.2	4.0 max.	1.2±0.2	3.3±0.2	1.3 typ.

G(mm)	H(mm)	I(mm)
3.6 ref.	4.0 ref.	1.5 ref.

SUNLEI Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ± 20%	I sat (A)	I rms (A)
SNR5040B-1R5Y-TQ	1.5	±30%	1V100K	60	0.017	6.4	4.5
SNR5040B-2R2Y-TQ	2.2	±30%	1V100K	42	0.022	5	3.7
SNR5040B-3R3Y-TQ	3.3	±30%	1V100K	32	0.027	4	3.3
SNR5040B-4R7Y-TQ	4.7	±30%	1V100K	28	0.029	3.3	3.1
SNR5040B-6R8M-TQ	6.8	±20%	1V100K	21	0.049	2.8	2.4
SNR5040B-100M-TQ	10	±20%	1V100K	18	0.056	2.3	2.1
SNR5040B-150M-TQ	15	±20%	1V100K	13	0.08	2	1.8
SNR5040B-220M-TQ	22	±20%	1V100K	9	0.126	1.5	1.4

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