

■ Features:

- Low profile construction and miniature size
- Magnetic shielded construction
- High current saturation
- For new generation portable product D/D converter unit

■ Applications:

- Notebooks, desktop computers, servers, graphic cards.
- Blue -ray disc recorders, set top box , Automotive systems.
- Portable gaming devices, personal navigation systems, personal multimedia devices

■ Parts code:

SNR 4018

Type

4R7

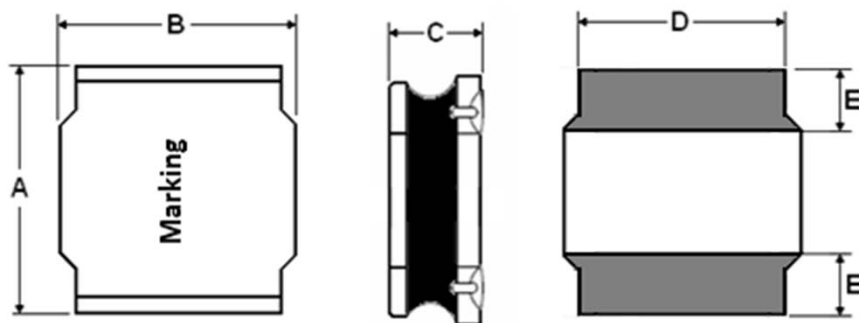
Inductance code

M

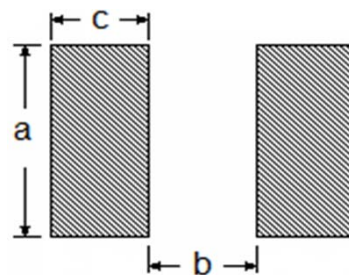
Tolerance: M : $\pm 20\%$

N : $\pm 30\%$

■ Outline Dimension:

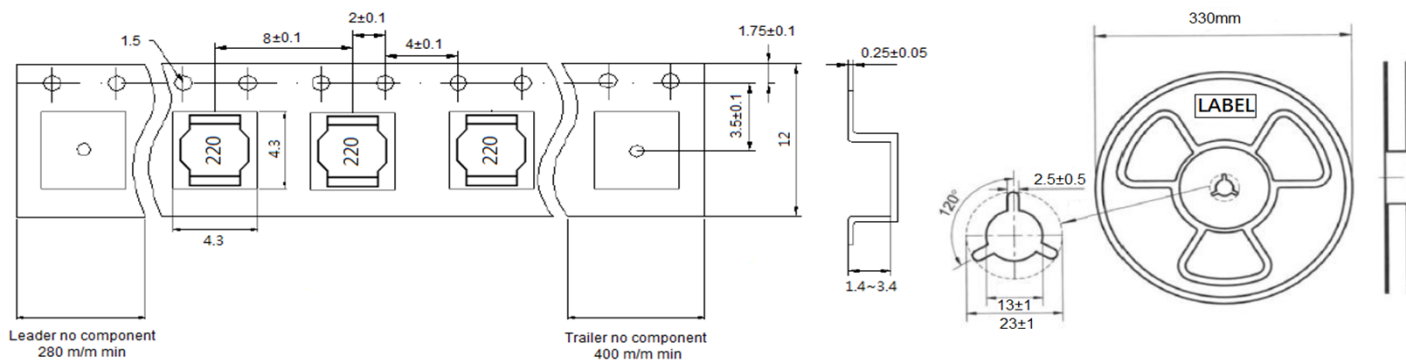


■ Recommended Land Pattern:



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
SNR 4012	4.0 \pm 0.2	4.0 \pm 0.2	1.2 max	3.7 Ref.	1.0 Ref.	3.7 Typ	1.9 Typ	1.1 Typ
SNR 4018	4.0 \pm 0.2	4.0 \pm 0.2	1.8 max	3.7 Ref.	1.0 Ref.	3.7 Typ	1.9 Typ	1.1 Typ
SNR 4020	4.0 \pm 0.2	4.0 \pm 0.2	2.0 max	3.7 Ref.	1.0 Ref.	3.7 Typ	1.9 Typ	1.1 Typ
SNR 4030	4.0 \pm 0.2	4.0 \pm 0.2	3.0 max	3.7 Ref.	1.0 Ref.	3.7 Typ	1.9 Typ	1.1 Typ



■ Package: Q'TY / Reel

SNR-4012--4K/pcs

SNR-4018--3K/pcs

SNR-4020--3K/pcs

SNR-4030--2K/pcs



4.0X4.0X1.2

■ Specifications

SNR 4012					
Flic No.	L	DCR (Ω)	SRF (MHz)	Stauration Current	Heat Rating Current
	(uH)	Max	Tpy.	Isat (A)	Irms (A)
SNR 4012- R82N	0.82	0.050	150	3.02	1.65
SNR 4012- 1R0N	1.0	0.050	120	2.61	1.65
SNR 4012- 1R5N	1.5	0.065	90	2.10	1.46
SNR 4012- 1R8N	1.8	0.080	88	2.12	1.32
SNR 4012- 2R2N	2.2	0.080	74	1.76	1.32
SNR 4012- 3R3N	3.3	0.110	60	1.72	1.12
SNR 4012- 4R7N	4.7	0.125	50	1.15	1.05
SNR 4012- 6R8M	6.8	0.198	40	0.85	0.84
SNR 4012- 100M	10	0.265	33	0.80	0.77
SNR 4012- 120M	12	0.290	32	0.66	0.70
SNR 4012- 150M	15	0.340	25	0.56	0.64
SNR 4012- 220M	22	0.587	20	0.46	0.49
SNR 4012- 330M	33	0.810	17	0.42	0.42
SNR 4012- 470M	47	1.100	12	0.35	0.37
SNR 4012- 680M	68	1.950	11	0.38	0.27
SNR 4012- 820M	82	2.140	11	0.28	0.26
SNR 4012- 101M	100	2.210	9.4	0.25	0.25

■ Notes: Tolerance: M (± 20%)), N (± 30%)

■ Test Ferquency: 100K/1V

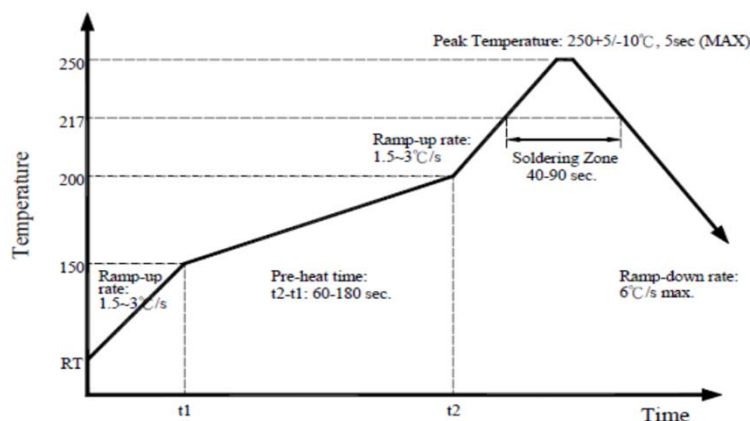
Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -25°C ~ +125°C

Storage Temp: -25°C ~ +125°C

■ Recommended Lead -Free IR Reflow Conditions:





4.0X4.0X1.8

■ Specifications

SNR 4018					
Flic No.	L	DCR (Ω)	SRF (MHz)	Stauration Current	Heat Rating Current
	(uH)	Max	Tpy.	Isat (A)	Irms (A)
SNR 4018- 1R0N	1.0	0.025	80	4.20	2.00
SNR 4018- 1R5N	1.5	0.030	65	3.35	1.80
SNR 4018- 2R2M	2.2	0.045	52	2.70	1.65
SNR 4018- 3R3M	3.3	0.070	44	2.45	1.23
SNR 4018- 4R7M	4.7	0.090	34	1.70	1.20
SNR 4018- 6R8M	6.8	0.110	29	1.45	1.06
SNR 4018- 100M	10	0.180	24	1.30	0.84
SNR 4018- 150M	15	0.250	19	0.94	0.65
SNR 4018- 220M	22	0.360	16	0.80	0.59
SNR 4018- 330M	33	0.530	12	0.56	0.49
SNR 4018- 470M	47	0.650	10	0.57	0.42
SNR 4018- 680M	68	1.000	8.3	0.47	0.32
SNR 4018- 101M	100	1.750	6.5	0.40	0.25
SNR 4018- 151M	150	2.500	5.5	0.31	0.22
SNR 4018- 221M	220	4.000	4.0	0.27	0.17
SNR 4018- 331M	330	6.500	2.2	0.20	0.14

■ Notes: Tolerance: M (± 20%) , N (± 30%)

■ Test Ferquency: 100K/1V

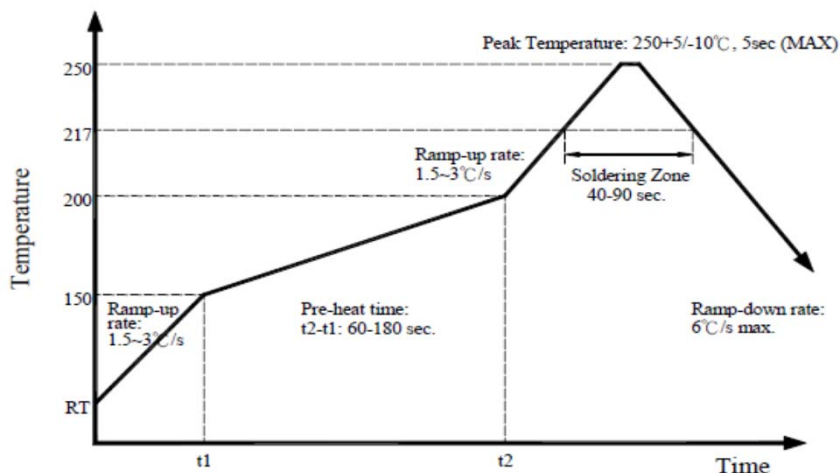
Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -25°C ~ +125°C

Storage Temp: -25°C ~ +125°C

■ Recommended Lead -Free IR Reflow Conditions:





4.0X4.0X2.0

Specifications

SNR 4020					
Flic No.	L	DCR (Ω)	SRF (MHz)	Stauration Current	Heat Rating Current
	(μ H)	Max	Tpy.	Isat (A)	Irms (A)
SNR 4020- 1R0N	1.0	0.029	75	4.78	2.15
SNR 4020- 1R2N	1.2	0.029	72	5.10	2.15
SNR 4020- 1R5N	1.5	0.035	71	4.45	1.98
SNR 4020- 2R2N	2.2	0.040	49	3.40	1.85
SNR 4020- 3R3M	3.3	0.070	44	3.20	1.40
SNR 4020- 4R7M	4.7	0.075	42	2.35	1.34
SNR 4020- 5R6M	5.6	0.090	30	2.20	1.22
SNR 4020- 6R8M	6.8	0.125	33	2.00	1.04
SNR 4020- 8R2M	8.2	0.125	27	1.75	1.04
SNR 4020- 100M	10	0.165	26	1.60	0.90
SNR 4020- 150M	15	0.230	24	1.35	0.77
SNR 4020- 220M	22	0.350	15	1.05	0.62
SNR 4020- 330M	33	0.550	11	0.85	0.49
SNR 4020- 470M	47	0.710	10	0.74	0.44
SNR 4020- 560M	56	0.800	10	0.66	0.41
SNR 4020- 680M	68	1.060	7.7	0.61	0.36
SNR 4020- 820M	82	1.170	7.2	0.50	0.34
SNR 4020- 101M	100	1.550	6.3	0.48	0.31

Notes: Tolerance: M ($\pm 20\%$), N ($\pm 30\%$)

Test Ferquency: 100K/1V

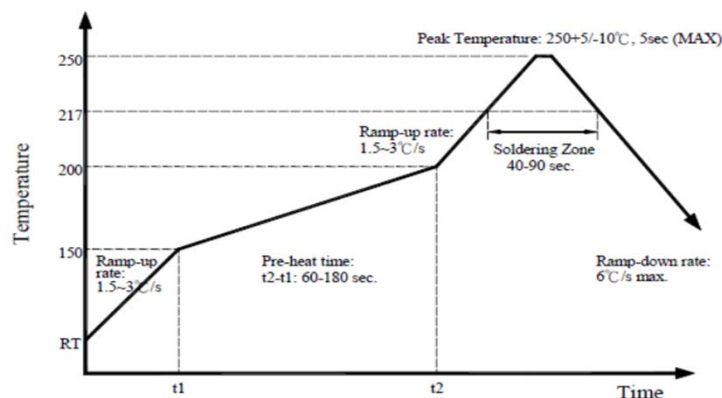
Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -25°C ~ +125°C

Storage Temp: -25°C ~ +125°C

Recommended Lead -Free IR Reflow Conditions:





4.0X4.0X3.0

Specifications

SNR 4030					
Flic No.	L	DCR (Ω)	SRF (MHz)	Stauration Current	Heat Rating Current
	(uH)	Max	Tpy.	Isat (A)	Irms (A)
SNR 4030- 1R0N	1.0	0.016	70	5.26	4.14
SNR 4030- 1R5N	1.5	0.020	62	4.84	3.34
SNR 4030- 2R2N	2.2	0.030	52	4.40	2.95
SNR 4030- 3R3M	3.3	0.040	38	3.30	2.40
SNR 4030- 4R7M	4.7	0.060	31	2.90	2.00
SNR 4030- 6R8M	6.8	0.090	24	2.75	1.60
SNR 4030- 100M	10	0.100	21	1.95	1.50
SNR 4030- 150M	15	0.190	16	1.65	1.11
SNR 4030- 220M	22	0.225	10	1.30	1.00
SNR 4030- 330M	33	0.330	10	1.10	0.84
SNR 4030- 470M	47	0.445	8.4	0.95	0.72
SNR 4030- 680M	68	0.868	7.0	0.72	0.52
SNR 4030- 101M	100	1.150	5.6	0.60	0.45
SNR 4030- 151M	150	1.800	4.0	0.50	0.30
SNR 4030- 221M	220	2.500	4.2	0.40	0.35
SNR 4030- 331M	330	4.000	6.8	0.30	0.25
SNR 4030- 471M	470	7.200	2.0	0.30	0.20
SNR 4030- 681M	680	7.500	1.2	0.19	0.14

Notes: Tolerance: M (± 20%)), N (± 30%)

Test Ferquency: 100K/1V

Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -25°C ~ +125°C

Storage Temp: -25°C ~ +125°C

Recommended Lead -Free IR Reflow Conditions:

