

Features:

- Miniature size
- Available on tape and reel for automatic insertion
- Lead free part available

Applications:

- DC to DC converters for portable equipment , camcorder , LCD television set , digital camera , P.D.A. , notebook

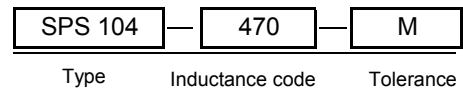
Dimensions in mm

TYPE	A	B	C
SPS 104	10.3Max	10.4Max	4.0 Max
SPS 105	10.3Max	10.4Max	5.0 Max

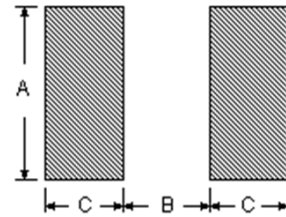
Specifications

Inductance		SPS 104			SPS 105		
		DCR	I _{rms}	I _{sat}	DCR	I _{rms}	I _{sat}
TYPE	uH	(Ω)Max	(A)Max	(A)Max	(Ω)Max	(A)Max	(A)Max
R80N	0.8				0.0043	7.50	12.0
1R5N	1.5	0.0081	6.50	10.0	0.0058	7.00	9.00
2R5N	2.5	0.0100	6.10	7.50			
3R3N	3.3				0.0104	5.75	6.00
3R8N	3.8	0.0130	5.50	6.00			
4R7N	4.7				0.0123	4.75	5.20
5R2N	5.2	0.0220	5.40	5.50			
6R8N	6.8				0.0180	4.10	4.20
7R0N	7.0	0.0270	4.50	4.80			
8R2N	8.2				0.0200	4.00	3.80
100M	10.0	0.0350	3.80	4.40	0.0258	3.75	3.45
120M	12.0				0.0320	3.00	3.40
150M	15.0	0.0500	3.10	3.60	0.0400	2.65	2.83
180M	18.0				0.0460	2.20	2.62
220M	22.0	0.0730	2.50	2.90	0.0585	1.80	2.44
270M	27				0.0654	1.70	2.24
330M	33	0.0930	2.20	2.30	0.0814	1.65	1.88
390M	39				0.1031	1.60	1.70
470M	47	0.1280	1.90	2.10	0.1221	1.50	1.56
560M	56				0.1448	1.45	1.39
680M	68	0.2130	1.42	1.50	0.1930	1.20	1.36
820M	82				0.2194	0.95	1.20
101M	100	0.3040	1.25	1.35	0.2470	0.90	1.09
121M	120				0.2984	0.85	1.00
151M	150	0.5060	0.85	1.15	0.3551	0.80	0.91
181M	180				0.3943	0.75	0.84
221M	220	0.7560	0.70	0.92	0.4838	0.70	0.75
271M	270				0.6325	0.60	0.68
331M	330	1.0900	0.52	0.70	0.7800	0.50	0.60
391M	390				0.9575	0.45	0.57
471M	470				1.2204	0.42	0.50
561M	560				1.3524	0.39	0.47
681M	680				1.5192	0.36	0.43
821M	820				1.6944	0.34	0.39
102M	1000				1.9464	0.32	0.35

Parts code:



Recommended Land Pattern:



Type	A	B	C
SPS 104	3.6	7.3	1.7
SPS 105	3.6	7.3	1.7

Notes:

1. Test Freq. : 100Hz / 0.1V
2. PACKAGING: 1000Pcs/Reel
3. Tolerance: M=±20% , N=±30%
4. Operating temperature range: -40~ +105°C

■ I_{sat}: Saturation Current The current when the inductance becomes 35% lower than its initial value.

I_{rms}: Temperature Rise Current The current when temperature of coil increases up to max Δ T=40°C