

SPECIFICATIONS

Customer	
Product Name	Mini Moding Power Choke
Lineprinting Part Number	NSPC Series
Customer Part Number	

Approved By	Checked By	Issued By
张瑞平	李孝转	葛胜军

Tel:18502595337
Mail:shengjun_ge@southshu.com
www.southshu.com

■ Features

- High performance (Isat) realized by metal dust core.
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard

■ Application

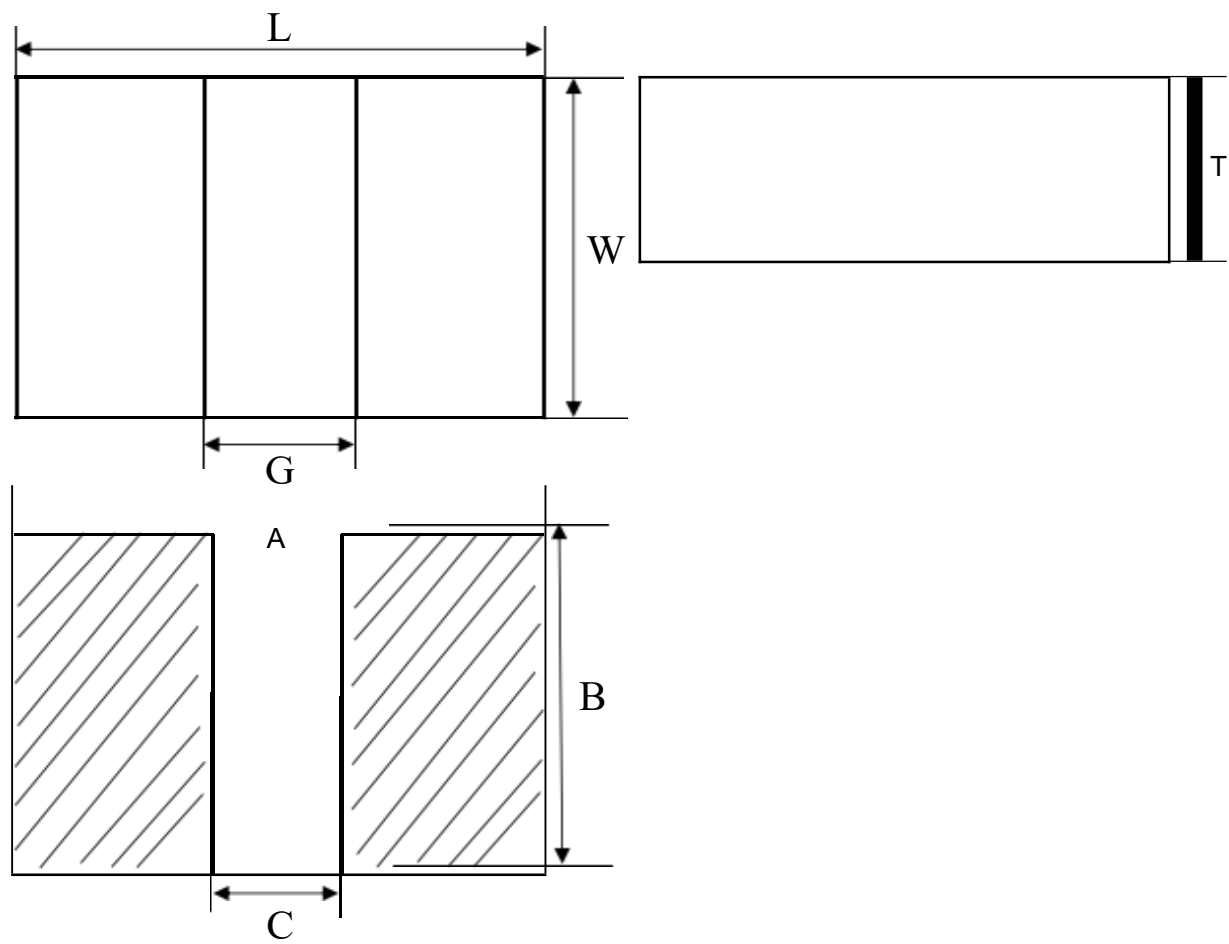
- DC/DC converter for CPU in Notebook PC Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger VRM for server.

■ Product Identification

NSPC 252010 D 100 MT
A B C D E

A	Product Series
B	External Dimensions(L×W×H) [mm]
C	Feature Type [+0.1mm/+0.2mm]
D	Nominal Inductance [μH]
E	Inductance Tolerance[±20%]

■ Outline Dimensions



Part Number	Dimensions (mm)						
	A	B	C	L	G	W	T
NSPC1608065D	1.70	0.90	0.50	1.6±0.2	0.6±0.2	0.8±0.2	0.65Max
NSPC160808D	1.70	0.90	0.50	1.6±0.2	0.6±0.2	0.8±0.2	0.8Max
NSPC1412065D	1.5	1.3	0.4	1.4±0.2	0.5±0.2	1.2±0.2	0.65Max
NSPC141208D	1.5	1.3	0.4	1.4±0.2	0.5±0.2	1.2±0.2	0.8Max
NSPC2012065D	2.10	1.30	0.50	2.0±0.2	0.6±0.2	1.2±0.2	0.65Max

NSPC201208D	2.10	1.30	0.50	2.0±0.2	0.6±0.2	1.2±0.2	0.8Max
NSPC201210D	2.10	1.30	0.50	2.0±0.2	0.6±0.2	1.2±0.2	1.0Max
NSPC2016065D	2.10	1.70	0.50	2.0±0.2	0.6±0.2	1.6±0.2	0.65Max
NSPC201608D	2.10	1.70	0.50	2.0±0.2	0.6±0.2	1.6±0.2	0.8Max
NSPC201610D	2.10	1.70	0.50	2.0±0.2	0.6±0.2	1.6±0.2	1.0Max
NSPC201612D	2.10	1.70	0.50	2.0±0.2	0.6±0.2	1.6±0.2	1.2Max
NSPC252008D	2.60	2.10	0.70	2.5±0.2	0.8±0.2	2.0±0.2	0.8Max
NSPC252010D	2.60	2.10	0.70	2.5±0.2	0.8±0.2	2.0±0.2	1.0Max
NSPC252012D	2.60	2.10	0.70	2.5±0.2	0.8±0.2	2.0±0.2	1.2Max
NSPC322510D	3.2	2.5	1.00	3.2±0.2	1.0±0.2	2.5±0.2	1.0MAX
NSPC322512D	3.2	2.5	1.00	3.2±0.2	1.0±0.2	2.5±0.2	1.2MAX
NSPC322520D	3.2	2.5	1.00	3.2±0.2	1.0±0.2	2.5±0.2	2.0MAX
NSPC303010D	3.00	3.00	0.90	3.0±0.2	0.9±0.2	3.0±0.2	1.0Max
NSPC303012D	3.00	3.00	0.90	3.0±0.2	0.9±0.2	3.0±0.2	1.2Max
NSPC303015D	3.00	3.00	0.90	3.0±0.2	0.9±0.2	3.0±0.2	1.5Max
NSPC303018D	3.00	3.00	0.90	3.0±0.2	0.9±0.2	3.0±0.2	1.8Max
NSPC303020D	3.00	3.00	0.90	3.0±0.2	0.9±0.2	3.0±0.2	2.0Max

■ Specifications

➤ NSPC 1608-Series

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
1608065-Series							
NSPC1608065DR10MT	0.10	16.5	20.0	6.5	6.0	6.5	6.0
NSPC1608065DR22MT	0.22	35	43	4.0	3.5	5.0	4.5
NSPC1608065DR47MT	0.47	66	82	2.3	2.0	3.3	3.0
NSPC1608065D1R0MT	1.0	180	200	1.8	1.5	2.4	2.0
NSPC1608065D2R2MT	2.2	390	430	1.3	1.1	1.6	1.3
160808-Series							
NSPC160808DR22MT	0.22	33	40	3.4	3.0	5.5	5.0
NSPC160808DR24MT	0.24	34	41	3.3	2.9	5.3	4.8
NSPC160808DR33MT	0.33	30	35	4.7	4.3	4.7	4.4
NSPC160808DR47MT	0.47	80	100	2.6	2.3	4.1	3.7
NSPC160808DR56MT	0.56	51	63	2.5	2.2	3.0	2.7
NSPC160808DR68MT	0.68	110	130	2.1	1.9	3.3	3.0
NSPC160808D1R0MT	1.0	105	115	2.1	1.8	2.3	2.1
NSPC160808D1R5MT	1.5	240	285	1.7	1.4	2.4	2.0
NSPC160808D2R2MT	2.2	220	260	1.4	1.2	1.5	1.3
NSPC160808D3R3MT	3.3	500	600	1.0	0.9	1.4	1.2
NSPC160808D4R7MT	4.7	585	700	1.0	0.8	1.2	1.0
NSPC160808D100MT	10.0	1450	1600	0.5	0.45	0.8	0.7

➤ **NSPC 1412-Series**

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
1412065-Series							
NSPC1412065DR24MT	0.24	23	27	6.5	6.0	5.5	5.0
NSPC1412065DR33MT	0.33	37	45	3.0	2.7	3.4	3.0
NSPC1412065DR47MT	0.47	37	45	3.0	2.7	3.4	3.0
141208-Series							
NSPC141208DR24MT	0.24	22	27	4.1	3.7	6.0	5.7
NSPC141208DR33MT	0.33	23	28	4.0	3.5	5.3	5.0
NSPC141208DR47MT	0.47	29	35	3.8	3.3	4.6	4.2
NSPC141208D1R0MT	1.0	65	77	3.0	2.5	3.0	2.5
NSPC141208D2R2MT	2.2	200	225	2.0	1.8	1.9	1.7

➤ **NSPC 2012-Series**

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
2012065-Series							
NSPC2012065D1R0MT	1.0	78	86	2.6	2.3	2.8	2.5
NSPC2012065D2R2MT	2.2	215	230	1.7	1.4	1.8	1.5
201208-Series							
NSPC201208DR11MT	0.11	10	12	7.0	6.5	9.5	9.0
NSPC201208DR15MT	0.15	11	13	6.8	6.3	7.5	7.0

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
NSPC201208DR24MT	0.24	18	23	6.5	5.9	6.5	6.0
NSPC201208DR33MT	0.33	33	45	4.3	4.0	5.2	4.8
NSPC201208DR47MT	0.47	34	50	3.5	3.3	5.0	4.6
NSPC201208DR68MT	0.68	50	60	3.7	3.3	4.2	3.7
NSPC201208D1R0MT	1.0	55	70	3.3	2.9	4.0	3.5
NSPC201208D1R5MT	1.5	118	135	2.2	1.9	3.0	2.5
NSPC201208D2R2MT	2.2	160	185	2.2	1.8	2.6	2.3
NSPC201208D3R3MT	3.3	253	300	1.8	1.5	1.9	1.6
NSPC201208D4R7MT	4.7	285	325	1.7	1.5	1.6	1.4
201210-Series							
NSPC201208DR10MT	0.1	8.0	13	7.5	7.0	8.5	8.0
NSPC201208DR11MT	0.11	7.0	8.5	10.0	9.5	14.1	12.0
NSPC201208DR22MT	0.22	16	22	7.1	6.5	7.3	6.8
NSPC201208DR24MT	0.24	17	23	7.0	6.4	7.2	6.7
NSPC201208DR33MT	0.33	24	32	5.5	5.0	6.5	6.0
NSPC201208DR47MT	0.47	29	36	4.7	4.3	5.5	5.0
NSPC201208DR56MT	0.56	26	31	5.3	4.7	5.2	4.8
NSPC201208DR68MT	0.68	37	43	4.3	4.0	5.0	4.5
NSPC201208D1R0MT	1.0	55	63	3.9	3.5	4.0	3.5
NSPC201208D1R5MT	1.5	76	85	3.1	2.6	3.2	2.7

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
NSPC201208D2R2MT	2.2	135	150	2.0	1.7	2.7	2.4
NSPC201208D3R3MT	3.3	210	260	1.8	1.5	2.2	1.8
NSPC201208D4R7MT	4.7	275	300	1.6	1.4	1.8	1.6
NSPC201208D6R8MT	6.8	440	520	1.5	1.3	1.45	1.2
NSPC201208D100MT	10.0	600	660	1.1	1.0	1.2	1.0

➤ **NSPC 2016-Series**

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
2016065-Series							
NSPC2016065DR47MT	0.47	33	40	5.0	4.5	4.4	4.0
NSPC2016065D1R0MT	1.0	58	70	3.5	3.0	3.0	2.7
NSPC2016065D2R2MT	2.2	145	170	2.8	2.6	2.2	2.0
201608-Series							
NSPC201608DR24MT	0.24	14	20	6.5	5.8	6.0	5.5
NSPC201608DR33MT	0.33	18	24	5.5	4.8	5.8	5.3
NSPC201608DR47MT	0.47	24	27	4.6	4.4	5.5	5.0
NSPC201608DR68MT	0.68	39	44	3.8	3.5	4.6	4.2
NSPC201608DR1R0MT	1.0	53	60	3.6	3.3	3.3	3.1
NSPC201608D1R5MT	1.5	73	85	3.1	2.8	3.0	2.8

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
NSPC201608D2R2MT	2.2	150	180	2.3	2.1	2.4	2.2
NSPC201608D3R3MT	3.3	200	220	1.8	1.5	2.1	1.8
NSPC201608D4R7MT	4.7	260	290	1.6	1.4	1.7	1.5
NSPC201608D6R8MT	6.8	360	405	1.4	1.2	1.4	1.3
NSPC201608D100MT	10.0	690	800	1.0	0.9	1.0	0.9
201610-Series							
NSPC201610DR10MT	0.1	7.0	12	8.5	8.0	9.0	8.4
NSPC201610DR15MT	0.15	8.0	14	7.6	7.0	8.7	8.0
NSPC201610DR22MT	0.22	11	18	6.9	6.3	8.2	7.5
NSPC201610DR33MT	0.33	17	22	5.7	5.3	7.0	6.5
NSPC201610DR47MT	0.47	22	25	5.5	5.0	6.3	5.5
NSPC201610DR56MT	0.56	19	23	7.5	7.0	5.5	5.0
NSPC201610DR68MT	0.68	25	32	4.6	4.3	5.2	4.7
NSPC201610D1R0MT	1.0	35	43	4.5	4.1	4.6	4.2
NSPC201610D1R5MT	1.5	80	100	2.6	2.3	3.2	2.9
NSPC201610D2R2MT	2.2	105	115	2.5	2.1	3.0	2.8
NSPC201610D3R3MT	3.3	140	170	1.7	1.5	2.3	2.0
NSPC201610D4R7MT	4.7	190	220	1.6	1.4	2.0	1.8
NSPC201610D6R8MT	6.8	320	350	1.7	1.5	1.7	1.5
NSPC201610D100MT	10.0	483	580	1.0	0.7	1.4	1.1

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
201612-Series							
NSPC201612DR10MT	0.10	4.0	6.0	12	10	13	11.5
NSPC201612DR11MT	0.11	4.8	5.6	15.5	14.5	12.5	11.0
NSPC201612DR15MT	0.15	7.5	10.0	10.0	9.0	12.0	10.5
NSPC201612DR24MT	0.24	9.0	11	9.1	8.6	9.2	8.7
NSPC201612DR33MT	0.33	10	15	7.7	7.2	7.8	7.3
NSPC201612DR47MT	0.47	13	17	6.7	6.0	6.7	6.0
NSPC201612DR68MT	0.68	19	23	6.0	5.3	6.0	5.3
NSPC201612D1R0MT	1.0	30	36	5.0	4.5	5.0	4.5
NSPC201612D1R5MT	1.5	40	50	4.0	3.5	4.0	3.5
NSPC201612D2R2MT	2.2	77	90	3.3	2.9	3.1	2.7
NSPC201612D3R3MT	3.3	135	165	2.4	2.0	2.7	2.3
NSPC201612D6R8MT	6.8	255	300	1.8	1.7	1.9	1.7

➤ **NSPC 2520-Series**

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
252008-Series							
NSPC252008DR47MT	0.47	22	27	6.5	6.0	6.0	5.3
NSPC252008D1R0MT	1.0	34	40	4.3	4.0	4.5	4.0
NSPC252008D1R5MT	1.5	64	75	3.4	3.0	3.5	3.0

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
NSPC252008D2R2MT	2.2	69	77	3.0	2.6	3.5	3.0
NSPC252008D3R3MT	3.3	150	180	2.5	2.1	2.5	2.1
NSPC252008D4R7MT	4.7	180	215	2.0	1.5	1.9	1.5
NSPC252008D100MT	10.0	500	600	1.4	1.2	1.1	0.9
252010-Series							
NSPC252010DR10MT	0.10	6.5	8.5	12.0	11.0	13.5	12.5
NSPC252010DR22MT	0.22	12	17	6.8	6.5	8.6	7.9
NSPC252010DR24MT	0.24	12	17.5	6.7	6.4	8.5	7.8
NSPC252010DR33MT	0.33	13	19	6.5	6.2	7.6	7.2
NSPC252010DR47MT	0.47	15	22	6.1	5.6	7.5	6.5
NSPC252010DR68MT	0.68	23	27	5.6	5.0	5.9	5.5
NSPC252010DR82MT	0.82	25	29	4.5	4.1	5.3	4.8
NSPC252010DR1R0MT	1.0	25	30	4.7	4.1	5.4	4.8
NSPC252010D1R5MT	1.5	45	55	3.4	3.0	4.3	3.9
NSPC252010D2R2MT	2.2	62	70	2.4	2.1	3.3	3.0
NSPC252010D3R3MT	3.3	86	100	2.5	2.1	2.8	2.5
NSPC252010D4R7MT	4.7	160	180	2.0	1.6	2.6	2.0
NSPC252010D6R8MT	6.8	270	320	1.6	1.4	2.4	1.9
NSPC252010D100MT	10.0	500	560	1.05	0.95	1.55	1.4
NSPC252010D220MT	22.0	1100	1300	0.85	0.6	1.1	0.9

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
252012-Series							
NSPC252012DR10MT	0.1	6	10	12.0	10.5	13.5	12.5
NSPC252012DR24MT	0.24	10	15	8.0	7.5	9.3	8.8
NSPC252012DR33MT	0.33	11	17	6.8	6.4	8.3	7.8
NSPC252012DR47MT	0.47	11	15	6.7	6.0	7.7	7.0
NSPC252012D1R0MT	1.0	18	25	5.7	5.2	5.8	5.3
NSPC252012D1R5MT	1.5	27	32	4.6	4.2	4.7	4.4
NSPC252012D2R2MT	2.2	55	65	3.0	2.7	3.8	3.3
NSPC252012D3R3MT	3.3	80	97	2.3	1.8	3.0	2.7
NSPC252012D4R7MT	4.7	150	170	1.8	1.5	2.4	2.1
NSPC252012D6R8MT	6.8	245	270	1.6	1.4	2.0	1.7
NSPC252012D100MT	10.0	330	400	1.2	1.05	1.6	1.45

➤ **NSPC 3225-Series**

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
322510-Series							
NSPC322510DR22MT	0.22	9	11	8.5	8.0	8.5	8.0
NSPC322510DR33MT	0.33	11	15	8.3	7.8	8.3	7.8
NSPC322510DR47MT	0.47	17	22	6.4	5.9	8.3	7.6
NSPC322510DR68MT	0.68	22	28	6.2	5.7	7.5	7.0

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
NSPC322510D1R0MT	1.0	25	30	5.4	4.9	6.0	5.3
NSPC322510D1R5MT	1.5	34	42	4.0	3.6	5.0	4.4
NSPC322510D2R2MT	2.2	55	66	3.7	3.4	4.0	3.5
NSPC322510D3R3MT	3.3	105	120	2.7	2.3	3.7	3.3
NSPC322510D4R7MT	4.7	125	140	2.3	1.9	2.8	2.5
NSPC322510D6R8MT	6.8	290	320	1.9	1.6	2.4	2.0
NSPC322510D100MT	10.0	325	365	2.2	1.8	2.2	1.8
322512-Series							
NSPC322512DR10MT	0.10	5.2	7.0	12.0	11.0	18.0	16.5
NSPC322512DR22MT	0.22	6.6	10	9.2	8.7	11.5	11.0
NSPC322512DR33MT	0.33	9.0	14	8.4	8.1	10	9.5
NSPC322512DR47MT	0.47	14	19	7.5	7.2	8.6	8.2
NSPC322512DR68MT	0.68	18	23	7.6	6.8	8.1	7.7
NSPC322512D1R0MT	1.0	26	30	5.3	4.8	6.6	5.8
NSPC322512D1R5MT	1.5	37	44	4.7	4.3	5.1	4.7
NSPC322512D2R2MT	2.2	58	70	3.6	3.0	4.6	4.2
NSPC322512D3R3MT	3.3	75	95	2.9	2.5	3.7	3.2
NSPC322512D4R7MT	4.7	115	135	2.3	2.0	2.9	2.6
NSPC322512D6R8MT	6.8	177	210	2.1	1.9	2.8	2.4
NSPC322512D100MT	10.0	210	230	2.2	1.8	2.3	1.9

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
322520-Series							
NSPC322520DR33MT	0.33	7.5	9.0	9.5	9.0	15.5	14.0
NSPC322520DR47MT	0.47	9	10.5	9.5	8.5	15.0	13.0
NSPC322520DR68MT	0.68	12.5	14.5	9.0	8.0	13.0	11.0
NSPC322520D1R0MT	1.0	15	17.5	8.2	7.5	9.0	8.3
NSPC322520D1R5MT	1.5	22	25	6.5	6.0	6.8	6.0
NSPC322520D2R2MT	2.2	36	43	5.4	4.8	6.5	5.5

➤ **NSPC 3030-Series**

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
303010-Series							
NSPC303010D6R8MT	6.8	225	270	2.1	1.8	1.8	1.5
NSPC303010D100MT	10	320	360	2.0	1.7	1.6	1.3
303012-Series							
NSPC303012DR10MT	0.10	5.2	6.2	19.0	17.0	17.0	16.0
NSPC303012DR47MT	0.47	9.5	11.5	8.0	7.5	10.8	9.5
NSPC303012D1R0MT	1.00	24.0	28.0	6.0	5.2	5.2	4.8
NSPC303012D1R5MT	1.50	30.0	35.0	5.6	4.8	6.0	5.4
NSPC303012D4R7MT	4.70	105.0	125.0	2.8	2.4	2.8	2.4
NSPC303012D100MT	10.0	200.0	230.0	2.2	1.9	2.2	1.8

Part Number	Inductance (μ H)	Rdc(m Ω)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
NSPC303012D150MT	15.0	350.0	385.0	1.8	1.5	1.5	1.2
303015-Series							
NSPC303015DR15MT	0.15	5.0	6.0	12.0	11.0	16.0	15.0
NSPC303015DR33MT	0.33	6.5	8.5	14.0	13.0	12.0	11.0
NSPC303015DR47MT	0.47	9.0	11	9.0	8.0	10.0	9.0
NSPC303015D1R0MT	1.0	18	22	6.0	5.5	7.0	6.5
NSPC303015D1R5MT	1.5	22	26	8.0	7.5	6.0	5.5
NSPC303015D2R2MT	2.2	42	50	4.5	4.0	5.0	4.5
NSPC303015D4R7MT	4.7	87	104	3.5	3.0	4.0	3.5
NSPC303015D6R8MT	6.8	160	180	2.5	2.0	3.5	3.0
NSPC303015D100MT	10.0	185	215	2.0	1.5	2.8	2.5
NSPC303015D220MT	22.0	580	700	1.2	1.0	1.6	1.2
303018-Series							
NSPC303018DR22MT	0.22	5.5	7.0	10.0	9.0	17.0	16.0
NSPC303018DR47MT	0.47	8.0	10	9.0	8.0	12.0	11.0
NSPC303018DR68MT	0.68	12	14.5	10.0	9.0	11.0	10.0
NSPC303018D1R0MT	1.0	15	21	6.3	5.8	7.6	6.8
NSPC303018D1R5MT	1.5	20	26	6.8	6.4	8.0	7.0
NSPC303018D4R7MT	4.7	72	87	3.4	3.0	4.7	4.2

Part Number	Inductance (μH)	Rdc(mΩ)		Heat Rating Current Amps.Idc(A)		Saturation Current DC Amps.Isat(A)	
		Typ.	Max.	Typ.	Max.	Typ.	Max.
303020-Series							
NSPC303020DR15MT	0.15	4.0	5.0	12.5	11.5	17.0	16.0
NSPC303020DR33MT	0.33	7.5	9.0	10.0	9.0	16.5	15.0
NSPC303020DR47MT	0.47	8.0	11.0	9.0	8.0	14.5	13.0
NSPC303020DR68MT	0.68	13.0	16.0	8.0	7.5	13.0	11.0
NSPC303020D1R0MT	1.0	14.0	20.0	6.5	6.0	8.0	7.0
NSPC303020D1R5MT	1.5	19.0	26.0	6.2	5.5	7.0	6.5
NSPC303020D2R2MT	2.2	37.0	45.0	4.5	4.0	5.8	5.0
NSPC303020D3R3MT	3.3	52.0	65.0	4.5	4.0	5.8	5.2
NSPC303020D4R7MT	4.7	60.0	74.0	4.2	3.5	5.0	4.0
NSPC303020D6R8MT	6.8	120.0	140.0	3.2	2.8	4.2	3.5
NSPC303020D100MT	10.0	140.0	155.0	2.5	2.2	3.5	3.0
NSPC303020D150MT	15.0	240.0	260.0	1.8	1.5	2.5	2.1

NOTE: tolerance M=±20%

※ 1:Test Condition:1MHz, 1.0Vrms.

※ 2:All test data is referenced to 20 °C ambient:

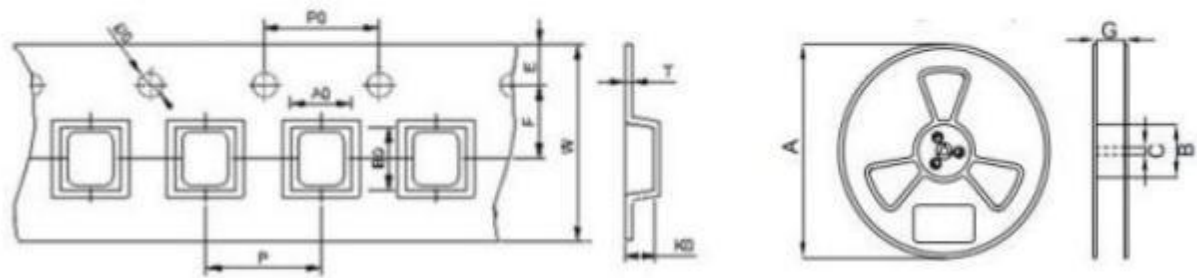
※ 3:Isat: DC current (A) that will cause L0 to drop approximately 30%.

※ 4: Irms: DC current (A) that will cause an approximate ΔT of 40°C .

※ 5: Operating temperature: -40°C to +125°C(Including self temperature rise).

※ 6: Temp rise & Saturation:The typical value is the measured value,and maximum value is the recommended current

■ Packaging



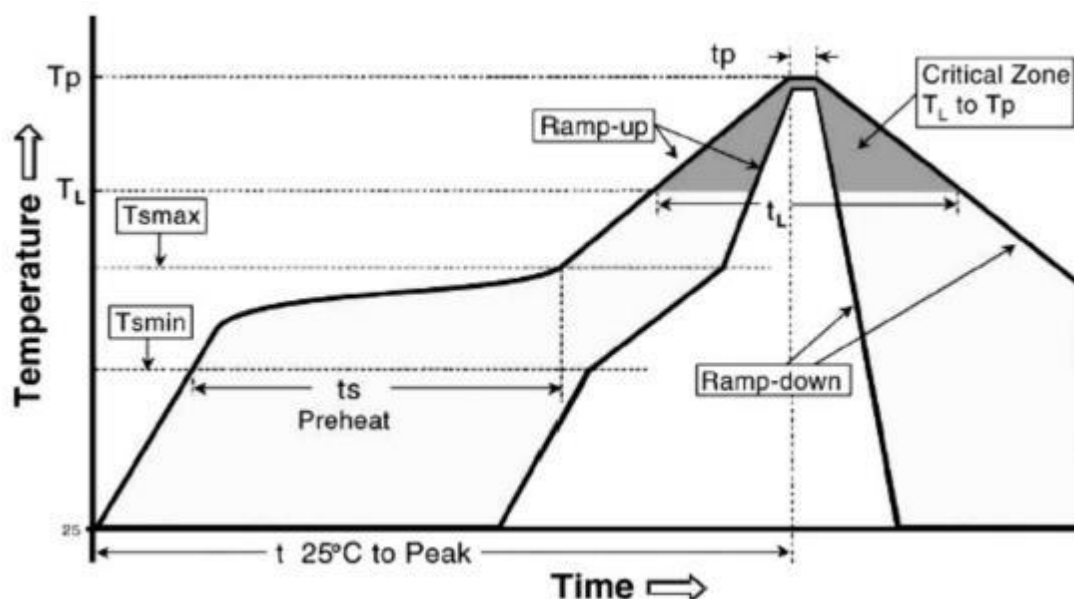
For example: 252012-series

TYPE	Tape Dimensions					
	W	A0	B0	K0	E	F
252012	8.0±0.1	2.5±0.1	2.95±0.1	1.4±0.1	1.75±0.1	3.5±0.1
	P	P0	D0	T		
	4.0±0.1	4.0±0.1	1.5+0.1/-0	0.18±0.02		
	A	B	C	G		
	178±2.0	58±2.0	13.5±0.2	9.0±0.5		

Reliability

Item	Specification	Test Method
Vibration	Appearance: No damage Inductance:within±10% of initial value	Test device shall be soldered on the substrate
		Oscillation Frequency: 10 to 55 to 10Hz for 1min
		Amplitude: 1.5mm
		Time: 2hrs for each axis (X, Y & Z), total 6hrs
Resistance to Soldering Heat	Appearance: No damage	Pre-heating: 150℃, 1min
		Solder Composition: Sn/Ag3.0/Cu0.5
		Solder Temperature: 260±5℃
		Immersion Time: 10±1sec
Solder ability	The electrodes shall be at least 95% covered with new solder coating	Pre-heating: 150℃, 1min
		Solder Composition: Sn/Ag3.0/Cu0.5
		Solder Temperature: 245±3℃
		Immersion Time:≤3sec
Resistance to solvent	There must be no change in appearance or obliteration of marking.	Inductors must withstand 6 minutes of alcohol or water.
Temperature Cycle	Appearance: No damage Inductance:within±10% of initial value	One cycle:
		Total: 100cycles
		Measured after exposure in the room condition for 24hrs
Humidity Resistance		Temperature: 40±2℃
		Relative Humidity: 90 ~ 95%
		Time: 1000hrs
		Measured after exposure in the room condition for 24hrs
High Temperature Resistance		Temperature: 125±3℃
		Relative Humidity: 0%
		Time: 1000hrs
		Measured after exposure in the room condition for 24hrs
Low Temperature Resistance		Temperature: -55±3℃
		Relative Humidity: 0%
		Time: 1000hrs
		Measured after exposure in the room condition for 24hrs

■ Soldering Conditions



Profile Feature	Pb-Free Assembly
Average Ramp-up Rate (T _{smax} to T _p)	3°C/sec Max.
Preheat TemperatureMin.(T _{smin}) TemperatureMax.(T _{smx}) Time(T _{s min} to T _{s max})	150°C 200°C 60sec~120sec
Peak Temperature(T _p)	260°C
Time within 5°C of actual Peak Temperature(T _p)	5sec
Melting tin time(T _L)	20sec~30sec
Ramp-down Rate	6°C/sec Max.
Time 25°C to peak Temperature	8 min Max.