

## FEATURES

- SHIELDED DUAL WINDING POWER INDUCTOR
- HIGH CURRENT (UP TO 18.3 AMPS)
- SURFACE MOUNTABLE CONSTRUCTION
- MAXIMUM HEIGHT OF 6.0MM
- TAPED AND REELED FOR AUTOMATIC INSERTION

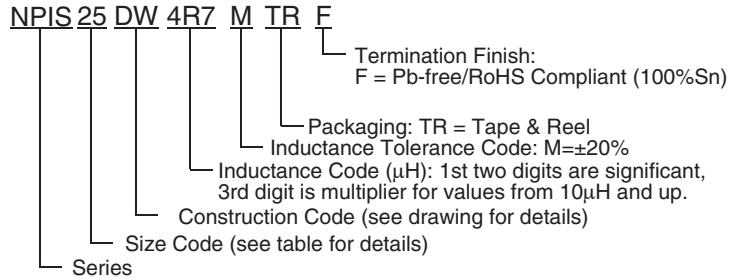
**RoHS Compliant**  
includes all homogeneous materials

\*See Part Number System for Details



Case Size	NPIS_DW	
Inductance Range	Parallel	Series
	1.5 ~ 1000μH	6.0 ~ 4000μH
Temperature Range	-40°C ~ +85°C	
Temperature Rise at Irms	+40°C max.	
Inductance Change at Isat	-35% typical	
Inductance Tolerance	±20% (M), ±30% (Y)	
Resistance to Solder Heat	260°C for 5 seconds	

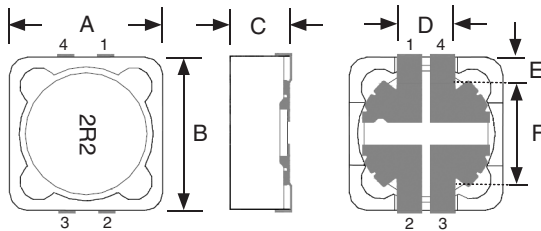
## PART NUMBER SYSTEM



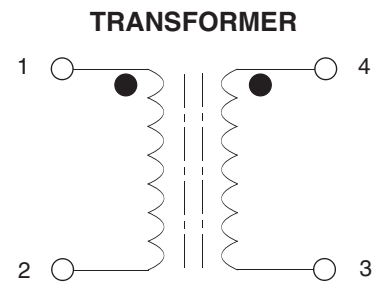
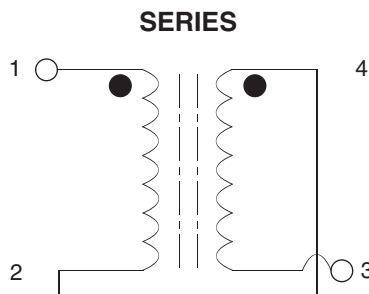
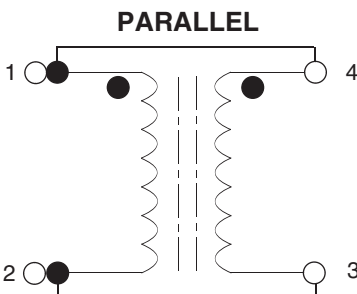
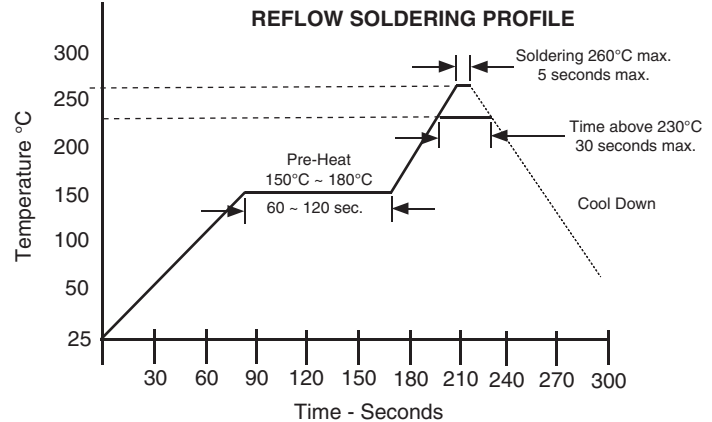
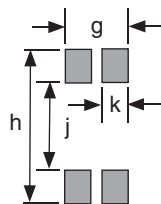
## COMPONENT AND LAND PATTERN DIMENSIONS (mm)

Series	A	B	C	D	E	F	h	g	j	k
NPIS25DW	12.8 max.	12.8 max.	6.0 max.	5.0 typ.	2.2 typ.	7.6 typ.	12.8	5.4	7.0	2.4

## COMPONENT



## LAND PATTERN



## STANDARD VALUES - CASE SIZE 25 (12.8 X 12.8 X 6.0mm)

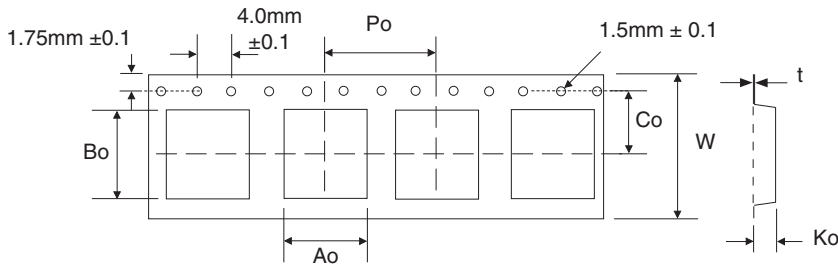
NIC P/N	Configuration	L0 (μH)		L1 (μH)		DCR (Ω) max.
		Value & Tolerance	Test Frequency (Hz)	Rated Current (A) max.	L Biased (μH) min.	
NPIS25DW1R5MTRF	Parallel (P1, 4 - P2, 3)	1.5 ±20%	1V/100K	18.3	0.828	0.005
	Series (P1-3)	6.0 ±20%	1V/100K	9.15	3.0	0.016
NPIS25DW2R2MTRF	Parallel (P1, 4 - P2, 3)	2.2 ±20%	1V/100K	15.0	1.237	0.006
	Series (P1-3)	8.8 ±20%	1V/100K	7.5	4.4	0.026
NPIS25DW3R3MTRF	Parallel (P1, 4 - P2, 3)	3.3 ±20%	1V/100K	12.7	1.727	0.008
	Series (P1-3)	13.2 ±20%	1V/100K	6.35	6.5	0.038
NPIS25DW4R7MTRF	Parallel (P1, 4 - P2, 3)	4.7 ±20%	1V/100K	9.71	2.954	0.014
	Series (P1-3)	18.8 ±20%	1V/100K	4.86	9.4	0.061
NPIS25DW6R8MTRF	Parallel (P1, 4 - P2, 3)	6.8 ±20%	1V/100K	8.68	3.689	0.015
	Series (P1-3)	27.2 ±20%	1V/100K	4.34	13.6	0.069
NPIS25DW8R2MTRF	Parallel (P1, 4 - P2, 3)	8.2 ±20%	1V/100K	7.86	4.507	0.022
	Series (P1-3)	32.8 ±20%	1V/100K	3.93	16.4	0.098
NPIS25DW100MTRF	Parallel (P1, 4 - P2, 3)	10 ±20%	1V/100K	7.17	5.406	0.023
	Series (P1-3)	40 ±20%	1V/100K	3.59	20	0.100
NPIS25DW150MTRF	Parallel (P1, 4 - P2, 3)	15 ±20%	1V/100K	5.69	8.595	0.036
	Series (P1-3)	60 ±20%	1V/100K	2.85	30	0.168
NPIS25DW220MTRF	Parallel (P1, 4 - P2, 3)	22 ±20%	1V/100K	4.71	12.52	0.048
	Series (P1-3)	88 ±20%	1V/100K	2.36	44	0.24
NPIS25DW330MTRF	Parallel (P1, 4 - P2, 3)	33 ±20%	1V/100K	3.84	18.9	0.061
	Series (P1-3)	132 ±20%	1V/100K	1.92	66	0.294
NPIS25DW470MTRF	Parallel (P1, 4 - P2, 3)	47 ±20%	1V/100K	3.24	26.58	0.089
	Series (P1-3)	188 ±20%	1V/100K	1.62	94	0.434
NPIS25DW680MTRF	Parallel (P1, 4 - P2, 3)	68 ±20%	1V/100K	2.7	38.03	0.132
	Series (P1-3)	272 ±20%	1V/100K	1.35	136	0.528
NPIS25DW820MTRF	Parallel (P1, 4 - P2, 3)	82 ±20%	1V/100K	2.39	48.66	0.154
	Series (P1-3)	328 ±20%	1V/100K	1.20	164	0.648
NPIS25DW101MTRF	Parallel (P1, 4 - P2, 3)	100 ±20%	1V/100K	2.2	57.49	0.204
	Series (P1-3)	400 ±20%	1V/100K	1.1	200	0.888
NPIS25DW151MTRF	Parallel (P1, 4 - P2, 3)	150 ±20%	1V/100K	1.81	84.63	0.320
	Series (P1-3)	600 ±20%	1V/100K	0.905	300	1.272
NPIS25DW221MTRF	Parallel (P1, 4 - P2, 3)	220 ±20%	1V/100K	1.51	121.4	0.460
	Series (P1-3)	880 ±20%	1V/100K	0.755	440	1.908
NPIS25DW331MTRF	Parallel (P1, 4 - P2, 3)	330 ±20%	1V/100K	1.22	186.3	0.579
	Series (P1-3)	1320 ±20%	1V/100K	0.661	660	2.439
NPIS25DW471MTRF	Parallel (P1, 4 - P2, 3)	470 ±20%	1V/100K	1.02	264.9	0.861
	Series (P1-3)	1880 ±20%	1V/100K	0.51	940	3.648
NPIS25DW681MTRF	Parallel (P1, 4 - P2, 3)	680 ±20%	1V/100K	0.85	380.7	1.330
	Series (P1-3)	2720 ±20%	1V/100K	0.425	1360	5.784



## STANDARD VALUES - CASE SIZE 25 (12.8 X 12.8 X 6.0mm)

NIC P/N	Configuration	L0 (μH)		L1 (μH)		DCR (Ω) nominal
		Value & Tolerance	Test Frequency (Hz)	Rated Current (A) max.	L Biased (μH) min.	
NPIS25DW821MTRF	Parallel (P1, 4 - P2, 3)	820 ±20%	1V/100K	0.77	463.7	1.790
	Series (P1-3)	3280 ±20%	1V/100K	0.385	1640	7.728
NPIS25DW102MTRF	Parallel (P1, 4 - P2, 3)	1000 ±20%	1V/100K	0.70	564.4	2.080
	Series (P1-3)	4000 ±20%	1V/100K	0.35	2000	8.736

Case Size	CARRIER TAPING DIMENSIONS (mm) AND REEL QUANTITY							
	Ao	Bo	Ko	Co	W	Po	t	Quantity
NPIS25DW	12.9 ± 0.1	12.9 ± 0.1	6.1 ± 0.1	11.5 ± 0.1	24 ± 0.3	16.0 ± 0.1	0.4 ± 0.05	600



Tape Width	REEL DIMENSIONS (mm)			
	A(mm)	B(mm)	C(mm)	D(mm)
24mm	24.5 ± 0.5	100 ± 1.0	13.5 ± 0.5	330

