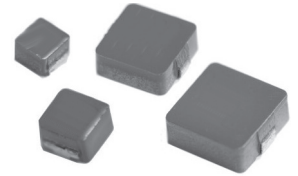


FEATURES

- SHIELDED POWER INDUCTOR
- HIGH OPERATING TEMPERATURE (+180°C)
- AEC-Q200 QUALIFIED
- AUTOMATIC ASSEMBLY
- ROBUST CONSTRUCTION
- LOW PROFILE (2.8 ~ 3.8mm HEIGHTS)
- SURFACE MOUNTABLE CONSTRUCTION
- TAPED AND REELED FOR AUTOMATIC INSERTION

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details

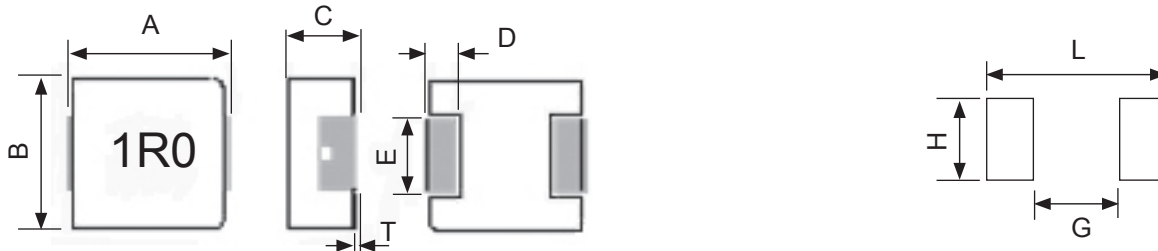


CHARACTERISTICS

Case Size	NPIM74W	NPIM104W
Inductance Range	0.47 ~ 22μH	1.0 ~ 68μH
Ambient Operating Temperature Range	-55°C ~ +180°C (including self-heating)	
Temperature Rise at Irms	Maximum +40°C Temperature Rise	
Inductance Change at Isat	Maximum -30% Inductance Drop From Initial Measured Value	
Inductance Tolerance	±10% (K), ±15% (L), ±20% (M), ±25% (N), ±30% (Y)	
Resistance to Solder Heat	+260°C for 10 seconds	

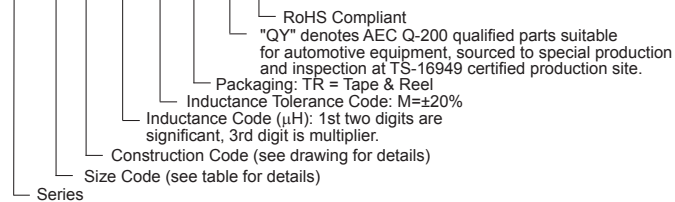
DIMENSIONS (mm)

Series	Component Dimensions						Land Pattern Dimensions		
	A	B	C	D	T	E	L	G	H
NPIM74W	7.1 ± 0.3	6.6 ± 0.2	2.8 ± 0.2	1.6 ± 0.3	0 ~ 0.15	3.0 ± 0.2	8.0	3.7	3.4
NPIM104W	11.0 ± 0.3	10.0 ± 0.3	3.8 ± 0.2	2.0 ± 0.3	0 ~ 0.20	3.0 ± 0.3	12.5	5.4	3.5



PART NUMBER SYSTEM

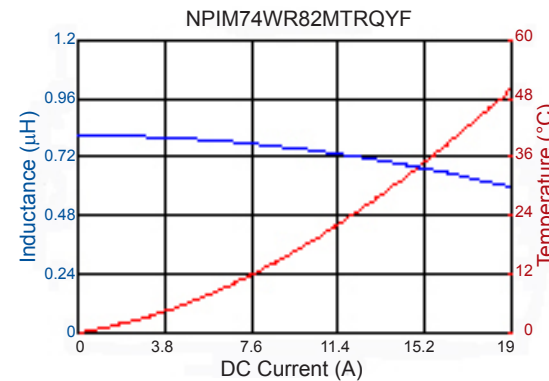
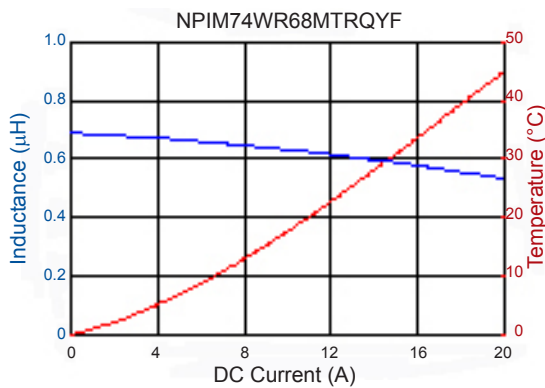
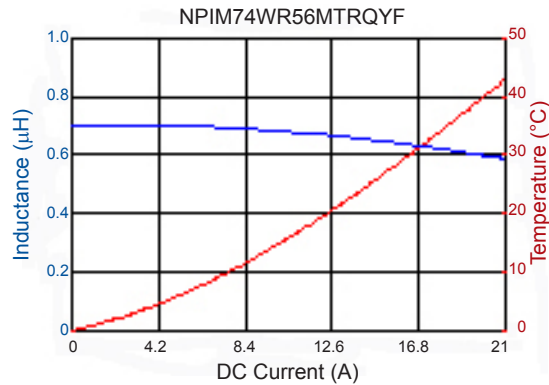
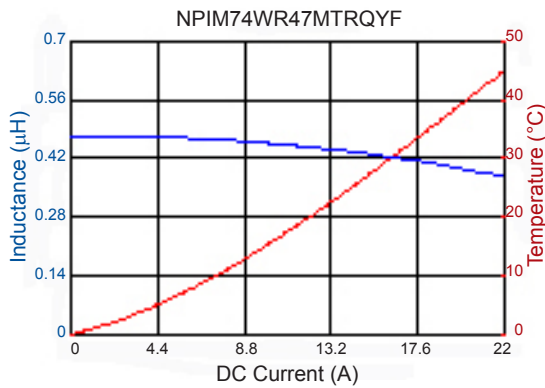
NPIM 74 W 4R7 M TR QY E

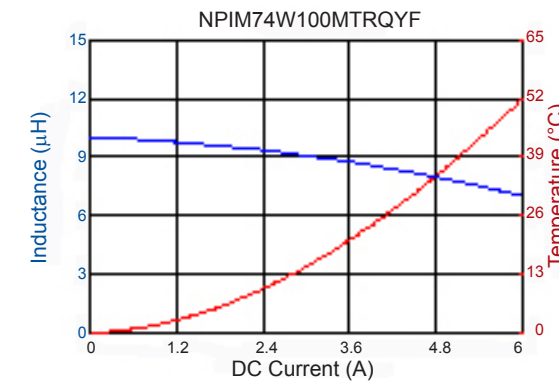
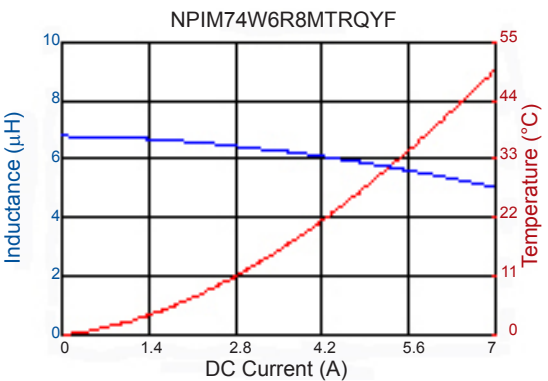
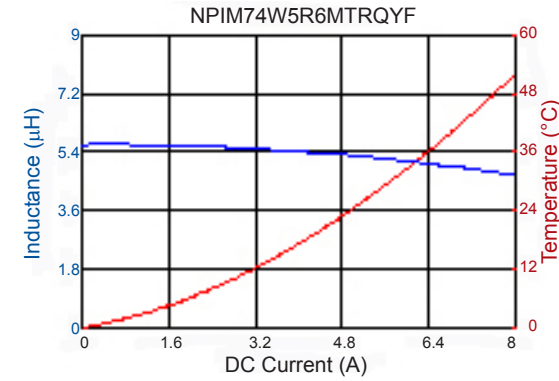
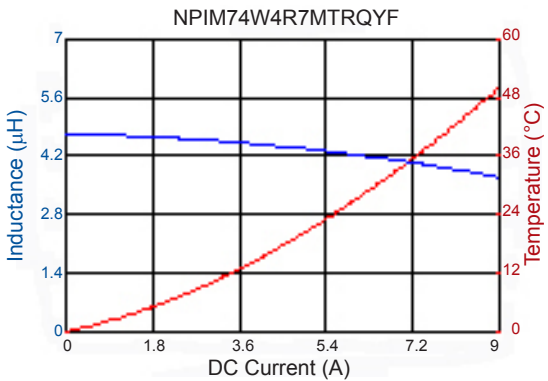
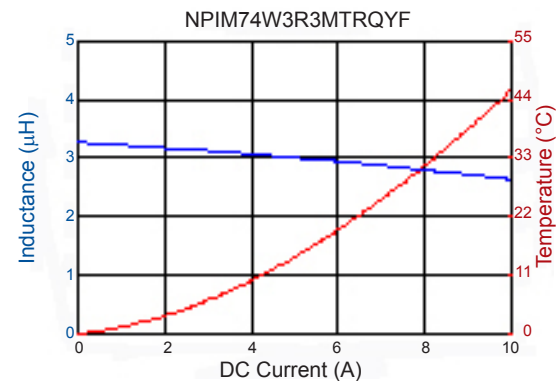
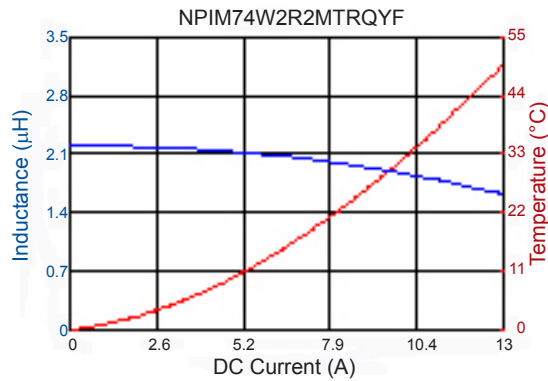
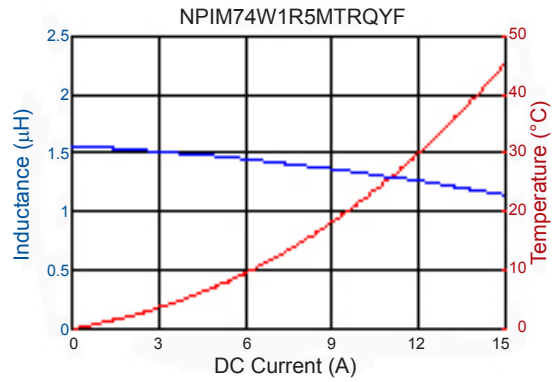
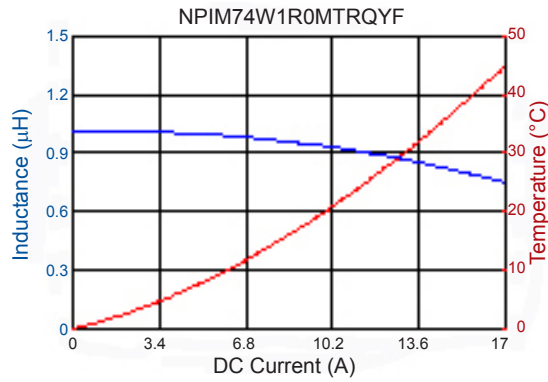


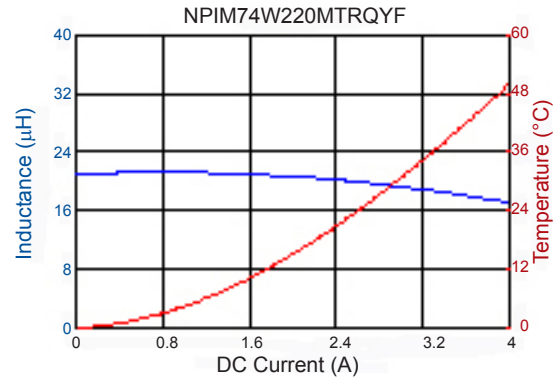
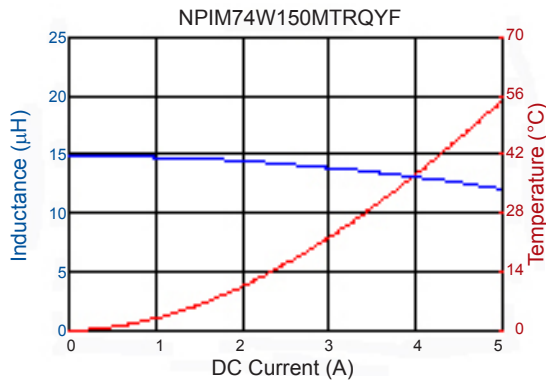
NPIM74W

Series	Standard Values - Case Size 73 (7.1 × 6.6 × 2.8mm)							
	Inductance (μH)	Test Conditions	DCR (mΩ)		I _{rms} (Amps)		I _{sat} (Amps)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
NPIM74WR47MTRQYF	0.47 ± 20%	100KHz, 1V	3.5	4.0	18	20	21	18
NPIM74WR56MTRQYF	0.56 ± 20%		4.2	4.8	19	17	20	17
NPIM74WR68MTRQYF	0.68 ± 20%		4.8	5.6	17	15.5	19	16.5
NPIM74WR82MTRQYF	0.82 ± 20%		5.7	6.8	16	14	18	16
NPIM74W1R0MTRQYF	1.0 ± 20%		6.6	8.0	15	13	16	14
NPIM74W1R5MTRQYF	1.5 ± 20%		11.2	13.2	13	11	14	12
NPIM74W2R2MTRQYF	2.2 ± 20%		13.7	15.8	11	9.0	13	11
NPIM74W3R3MTRQYF	3.3 ± 20%		21.5	25.8	9.0	7.3	9.5	8.3
NPIM74W4R7MTRQYF	4.7 ± 20%		32	37	7.0	6.0	8.5	7.0
NPIM74W5R6MTRQYF	5.6 ± 20%		36	42	6.5	5.5	7.2	6.0
NPIM74W6R8MTRQYF	6.8 ± 20%		43	50	6.0	5.0	6.5	5.5
NPIM74W100MTRQYF	10 ± 20%		62	68	5.0	4.2	5.0	4.2
NPIM74W150MTRQYF	15 ± 20%		95	114	4.1	3.5	3.2	2.8
NPIM74W220MTRQYF	22 ± 20%		140	168	3.4	2.8	3.0	2.6

Maximum +40°C temperature rise at IDC. Maximum -30% inductance drop from initial measured value at I_{sat}.



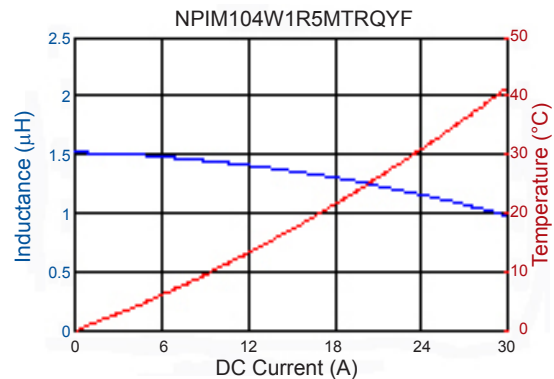
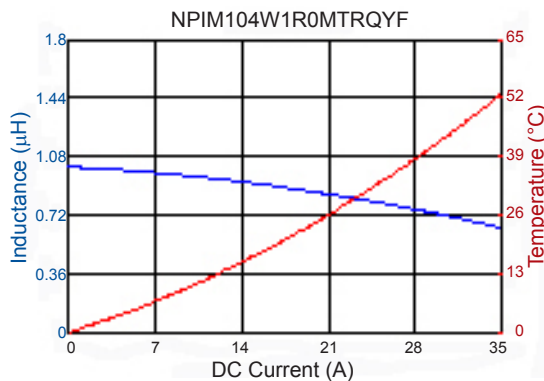


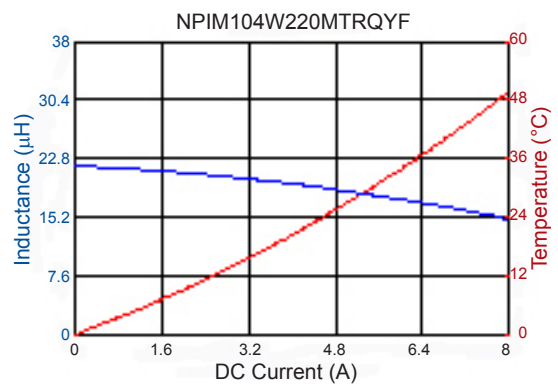
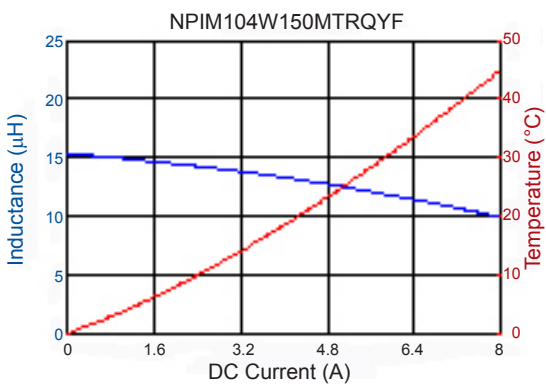
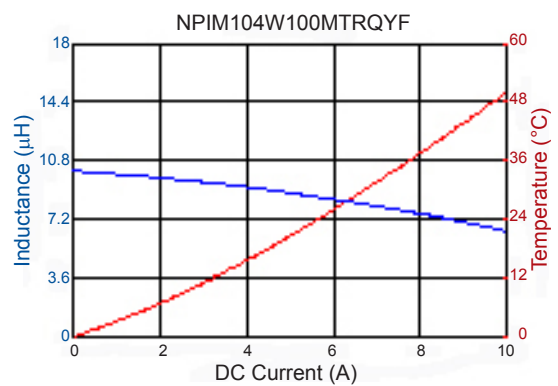
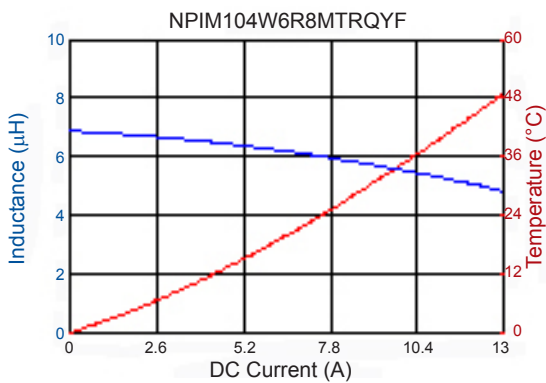
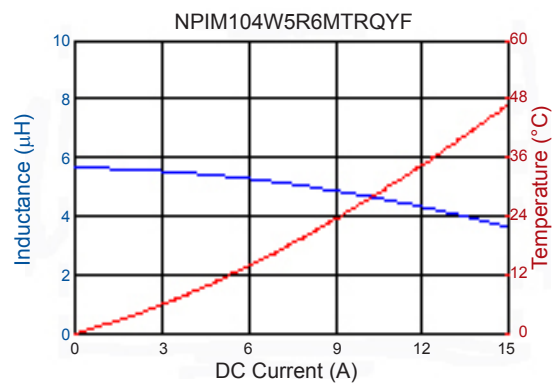
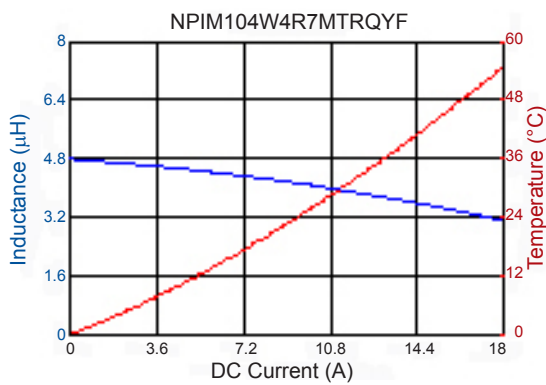
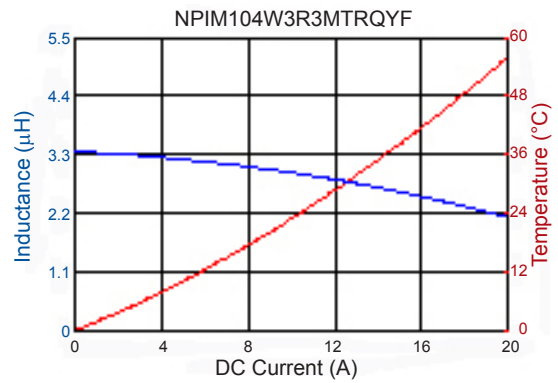
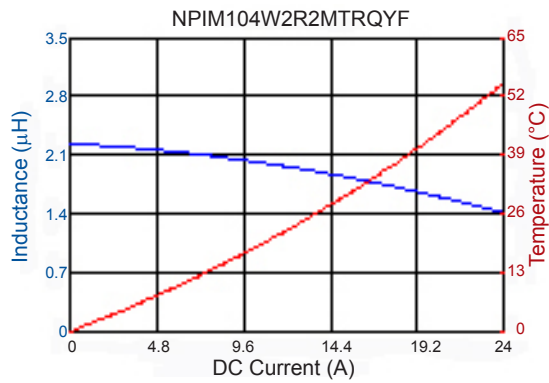


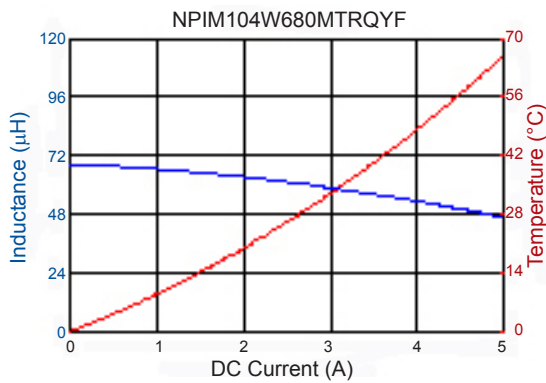
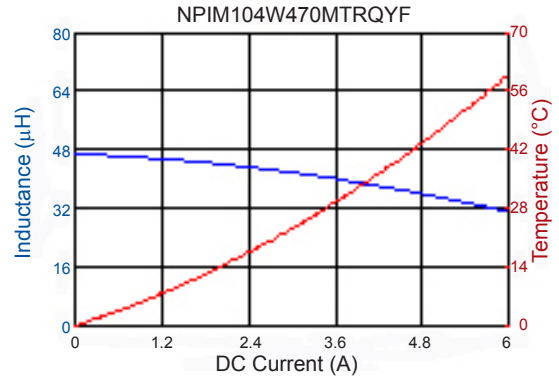
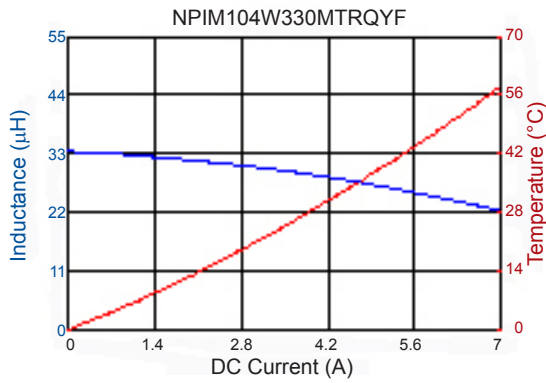
NPIM104W

Series	Standard Values - Case Size 104 (11.0 × 10.0 × 3.8mm)							
	Inductance (µH)	Test Conditions	DCR (mΩ)		I _{rms} (Amps)		I _{sat} (Amps)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
NPIM104W1R0MTRQYF	1.0 ± 20%	100kHz, 1V	2.8	3.07	27	24	29	26
NPIM104W1R5MTRQYF	1.5 ± 20%		4.2	4.5	22	19	27	24
NPIM104W2R2MTRQYF	2.2 ± 20%		6.5	7.2	18	15	21	18
NPIM104W3R3MTRQYF	3.3 ± 20%		10.2	11.8	15	12	18	16
NPIM104W4R7MTRQYF	4.7 ± 20%		14.3	15.3	13	10	15	13
NPIM104W5R6MTRQYF	5.6 ± 20%		15.5	17.5	12	9.6	13	11
NPIM104W6R8MTRQYF	6.8 ± 20%		20.2	22.3	10.5	9.0	11	10
NPIM104W100MTRQYF	10 ± 20%		29.3	33	8.0	7.0	9.0	8.0
NPIM104W150MTRQYF	15 ± 20%		45	50	7.0	6.0	7.6	6.5
NPIM104W220MTRQYF	22 ± 20%		64	72	6.0	5.0	6.5	5.7
NPIM104W330MTRQYF	33 ± 20%		110	117.7	5.0	4.2	5.3	4.5
NPIM104W470MTRQYF	47 ± 20%		145	167	4.0	3.4	4.5	4.0
NPIM104W680MTRQYF	68 ± 20%		210	240	3.5	3.0	3.5	2.8

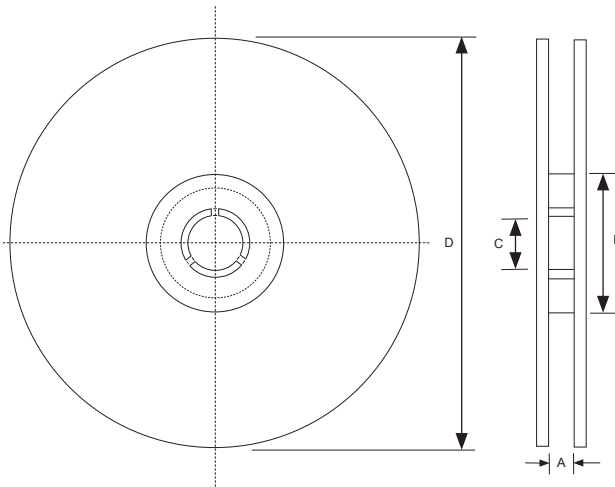
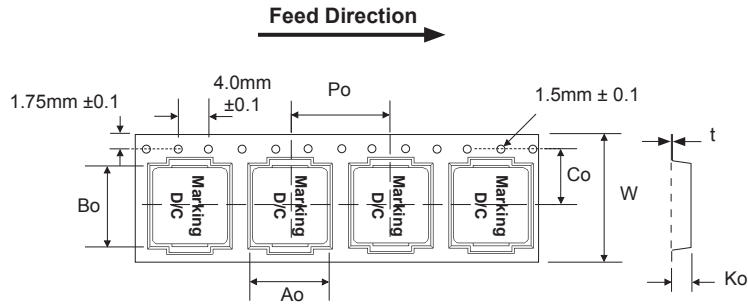
Maximum +40°C temperature rise at IDC. Maximum -30% inductance drop from initial measured value at I_{sat}.







Case Size	CARRIER TAPING DIMENSIONS (mm) AND REEL QUANTITY							
	Ao	Bo	Ko	Co	W	Po	t	Quantity
NPIM74W	7.0 ± 0.1	7.7 ± 0.1	3.3 ± 0.1	7.5 ± 0.1	16.0 ± 0.3	12.0 ± 0.1	0.35 ± 0.05	1,000
NPIM104W	10.4 ± 0.1	11.6 ± 0.1	4.5 ± 0.1	11.5 ± 0.1	24.0 ± 0.3	16.0 ± 0.1	0.35 ± 0.05	500



Tape Width	REEL DIMENSIONS (mm)			
	A(mm)	B(mm)	C(mm)	D(mm)
NPIM74W	16.4 +2.0/-0	100 ± 2.0	13.5 +0.5/-0.2	330 ± 3.0
NPIM104W	24.4 +2.0/-0			

