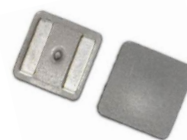
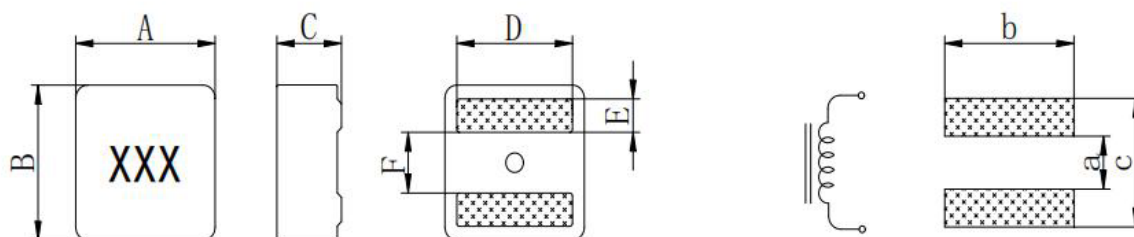


SMD POWER INDUCTOR



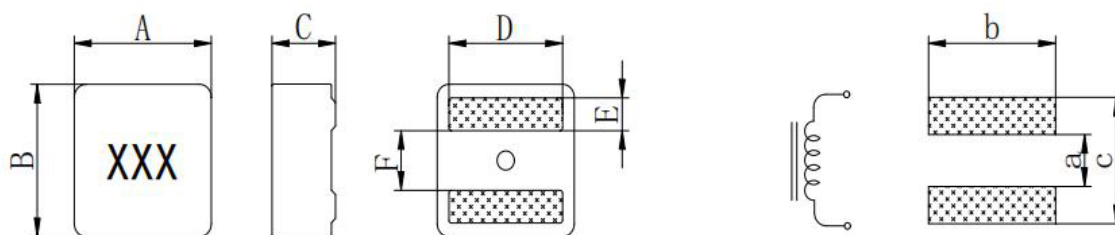
FEATURES	<ul style="list-style-type: none"> Compliance with RoHs. Lowest DCR. Frequency range up to 3.0MHz. Handles high transient current spikes without saturation. Ultra low buzz noise, due to composite construction. 																								
APPLICATIONS	<ul style="list-style-type: none"> DC/DC converter for CPU in Notebook PC. Battery powered devices. Cellular phones LCD displays, HDDs, DVCs,DSCs, PDA etc. Thin type on-board power supply module. 																								
PRODUCT IDENTIFICATION	<table border="0"> <tr> <td>FPD</td> <td>0420</td> <td>-</td> <td>R10</td> <td>N</td> <td>(1) PRODUCT NAME</td> </tr> <tr> <td>(1)</td> <td>(2)</td> <td></td> <td>(3)</td> <td>(4)</td> <td>(2) DIMENSION</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(3) INDUCTANCE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(4) TOLERANCE</td> </tr> </table>	FPD	0420	-	R10	N	(1) PRODUCT NAME	(1)	(2)		(3)	(4)	(2) DIMENSION						(3) INDUCTANCE						(4) TOLERANCE
FPD	0420	-	R10	N	(1) PRODUCT NAME																				
(1)	(2)		(3)	(4)	(2) DIMENSION																				
					(3) INDUCTANCE																				
					(4) TOLERANCE																				

CONFIGURATIONS & DIMENSIONS (unit in mm)



Type	A	B	C	D	E	F	a (Ref)	b (Ref)	c (Ref)
FPD0420	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.3	1.7±0.3	1.4	3.8	3.4
FPD0430	4.1±0.25	4.1±0.25	2.8±0.2	3.4±0.3	0.88±0.3	1.7±0.3	1.4	3.8	3.4
FPD0520	5.5±0.2	5.3±0.2	1.9±0.2	4.3±0.3	1.1±0.3	2.3±0.3	2.0	4.7	4.5
FPD0530	5.5±0.2	5.3±0.2	2.9±0.2	4.3±0.3	1.1±0.3	2.3±0.3	2.0	4.7	4.5
FPD0630	6.6±0.2	6.4±0.2	2.8±0.3	See Remarks	1.4±0.3	2.6±0.3	2.5	5.6	5.6
FPD0650	6.6±0.2	6.4±0.2	4.8±0.2	See Remarks	1.4±0.3	2.6±0.3	2.5	5.6	5.6
FPD0660	6.6±0.2	6.4±0.2	5.8±0.2	5.3±0.3	1.4±0.3	2.6±0.3	2.5	5.6	5.6

CONFIGURATIONS & DIMENSIONS (unit in mm)



Type	A	B	C	D	E	F	a (Ref)	b (Ref)	c (Ref)
FPD0720	7.8±0.25	7.6±0.2	1.85±0.2	See Remarks	1.75±0.3	3.15±0.3	2.8	7.2	7.4
FPD0730	7.8±0.25	7.6±0.2	2.9±0.2	See Remarks	1.75±0.3	3.15±0.3	2.8	7.2	7.4
FPD0770	7.8±0.25	7.6±0.2	6.7±0.2	See Remarks	1.75±0.3	3.15±0.3	2.8	7.2	7.4
FPD0880	8.9±0.3	8.5±0.3	7.7±0.3	See Remarks	1.8±0.3	3.5±0.5	2.7	7.8	8.0
FPD1030	11.9±0.3	11.0±0.3	2.9±0.2	9.0±0.5	2.4±0.3	4.4±0.5	3.7	11.0	10.5
FPD1060	11.9±0.3	11.0±0.3	5.7±0.3	See Remarks	2.4±0.3	4.5±0.5	3.7	11.0	10.5
FPD1010	11.9±0.3	11.0±0.3	9.7±0.3	See Remarks	2.4±0.3	4.5±0.5	3.7	11.0	10.5
FPD1580	16.5±0.3	15.5±0.3	7.7±0.3	13.2±0.5	3.2±0.3	7.0±0.5	6.0	15.0	15.0
FPD1510	16.5±0.3	15.5±0.3	9.7±0.3	13.2±0.5	3.2±0.3	7.0±0.5	6.0	15.0	15.0
FPD1513	16.5±0.3	15.5±0.3	12.7±0.3	13.2±0.5	3.2±0.3	7.0±0.5	6.0	15.0	15.0

REMARKS

Type	D(mm)	DIMENSIONS
FPD0630	5.0±0.3	3R3/4R5
	5.05±0.3	2R2
	5.10±0.3	1R8
	5.15±0.3	1R2/1R5
	5.20±0.3	1R0
	5.30±0.3	R18/R56/R68
	5.55±0.3	R33
FPD0650	5.20±0.3	2R2/3R3/4R3/4R7
	5.30±0.3	R82/1R0/1R2/1R5/1R8
FPD0720	6.60±0.3	R27
	6.20±0.3	R31/R33/R47/R68/1R0
FPD0730	6.60±0.3	1R0/1R5
	6.20±0.3	2R2/2R7/3R3/4R7/5R6/6R8/8R2
FPD0770	6.70±0.3	3R3/4R7
	6.50±0.3	6R8
FPD0880	7.20±0.3	1R8/2R2
	6.90±0.3	3R3/4R7/6R8/100
FPD1060	9.50±0.5	R68
	9.00±0.5	1R0/1R2/1R5/2R2/3R3/4R7
FPD1010	9.30±0.5	3R3/4R7/5R6
	9.00±0.5	6R8/8R2/100/150

Specification

ELECTRICAL CHARACTERISTICS FOR FPD0420 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0420-R10NMP	0.10±30%	100KHz/1V	2.42	18.0	33.0
FPD0420-R22NMP	0.22 ±30%		4.60	16.8	18.8
FPD0420-R36MNP	0.36 ±20%		6.30	14.5	15.0
FPD0420-R40MNP	0.40 ±20%		7.73	14.0	13.5
FPD0420-R47MNP	0.47 ±20%		8.58	12.5	13.0
FPD0420-R56MNP	0.56 ±20%		9.30	12.0	12.6
FPD0420-R60MNP	0.60 ±20%		9.52	11.7	12.3
FPD0420-R72MNP	0.72 ±20%		11.6	10.5	10.6
FPD0420-1R0MNP	1.00 ±20%		14.6	9.60	8.80
FPD0420-1R2MNP	1.20 ±20%		17.9	9.00	7.80
FPD0420-1R5MNP	1.50 ±20%		23.5	7.60	7.40
FPD0420-1R8MNP	1.80 ±20%		28.0	7.00	7.00
FPD0420-2R2MNP	2.20 ±20%		38.7	5.60	6.00

ELECTRICAL CHARACTERISTICS FOR FPD0430 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0420-R47MNP	0.47 ±20%	100KHz/1V	7.26	14.0	15.0
FPD0420-R90MNP	0.90 ±20%		10.1	11.2	9.00
FPD0420-1R0MNP	1.00 ±20%		10.1	11.0	9.00
FPD0420-1R2MNP	1.20 ±20%		11.5	9.80	8.70
FPD0420-1R5MNP	1.50 ±20%		13.2	9.00	7.00
FPD0420-2R2MNP	2.20 ±20%		22.6	7.80	6.10
FPD0420-3R3MNP	3.30 ±20%		28.6	6.60	5.30

ELECTRICAL CHARACTERISTICS FOR FPD0520 SERIES					
Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ)	I rms	I sat
			MAX	(A) TYPICAL	(A) TYPICAL
FPD0520-R15NMP	0.15 ± 30%	100KHz/1V	4.60	18.8	27.0
FPD0520-R16NMP	0.16 ± 30%		4.60	18.8	27.0
FPD0520-R33MNP	0.33 ± 20%		7.00	14.4	24.0
FPD0520-R47MNP	0.47 ± 20%		8.05	14.1	20.0
FPD0520-R56MNP	0.56 ± 20%		9.54	13.9	16.0
FPD0520-R68MNP	0.68 ± 20%		10.2	13.4	14.0
FPD0520-R80MNP	0.80 ± 20%		11.8	13.0	13.5
FPD0520-R82MNP	0.82 ± 20%		12.7	12.0	13.0
FPD0520-1R0MNP	1.00 ± 20%		13.8	10.5	12.8
FPD0520-1R2MNP	1.20 ± 20%		16.3	9.40	12.2
FPD0520-1R5MNP	1.50 ± 20%		18.7	8.80	11.7

ELECTRICAL CHARACTERISTICS FOR FPD0530 SERIES					
Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ)	I rms	I sat
			MAX	(A) TYPICAL	(A) TYPICAL
FPD0530-R15NMP	0.15 ± 30%	100KHz/1V	2.31	22.2	32.5
FPD0530-R16NMP	0.16 ± 30%		2.33	22.2	32.0
FPD0530-R33MNP	0.33 ± 20%		3.52	19.2	26.0
FPD0530-R47MNP	0.47 ± 20%		4.13	18.4	24.0
FPD0530-R56MNP	0.56 ± 20%		4.52	17.7	20.2
FPD0530-R68MNP	0.68 ± 20%		4.52	17.7	20.0
FPD0530-R80MNP	0.80 ± 20%		5.65	13.1	18.0
FPD0530-R82MNP	0.82 ± 20%		5.78	12.9	17.6
FPD0530-1R0MNP	1.00 ± 20%		7.60	12.2	14.3
FPD0530-1R2MNP	1.20 ± 20%		9.70	11.1	13.5
FPD0530-1R5MNP	1.50 ± 20%		11.2	10.2	12.5
FPD0530-1R8MNP	1.80 ± 20%		12.7	10.1	11.3
FPD0530-2R2MNP	2.20 ± 20%		14.5	9.70	9.00
FPD0530-3R3MNP	3.30 ± 20%		23.1	7.10	8.70
FPD0530-4R7MNP	4.70 ± 20%		36.3	5.90	7.00

ELECTRICAL CHARACTERISTICS FOR FPD0550 SERIES					
Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0530-5R6MNP	5.60±30%	100KHz/1V	24.2	7.20	7.20
FPD0530-6R8MNP	6.80±30%		28.6	6.40	6.60
FPD0530-8R2MNP	8.20±20%		32.5	6.10	6.10
FPD0530-100MNP	10.0±20%		43.0	5.00	5.40

ELECTRICAL CHARACTERISTICS FOR FPD0630 SERIES					
Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0630-R18NNP	0.18±30%	100KHz/1V	1.75	32.0	36.0
FPD0630-R33NNP	0.33±30%		2.50	25.0	28.0
FPD0630-R56MNP	0.56±20%		3.31	22.0	25.0
FPD0630-R68MNP	0.68±20%		5.17	20.0	21.0
FPD0630-1R0MNP	1.00±20%		6.05	18.0	18.0
FPD0630-1R2MNP	1.20±20%		7.40	16.0	16.0
FPD0630-1R5MNP	1.50±20%		9.13	15.0	15.5
FPD0630-1R8MNP	1.80±20%		10.2	14.0	13.0
FPD0630-2R2MNP	2.20±20%		12.2	10.0	11.0
FPD0630-3R3MNP	3.30±20%		20.8	8.00	9.00
FPD0630-4R5MNP	4.50±20%		25.3	7.00	8.00

ELECTRICAL CHARACTERISTICS FOR FPD0650 SERIES					
Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0650-R82MNP	0.82±20%	100KHz/1V	4.18	21.0	20.0
FPD0650-1R0MNP	1.00±20%		4.52	20.0	18.0
FPD0650-1R2MNP	1.20±20%		5.83	18.0	16.0
FPD0650-1R5MNP	1.50±20%		6.30	17.0	14.5
FPD0650-1R8MNP	1.80±20%		7.10	16.0	13.5
FPD0650-2R2MNP	2.20±20%		8.50	13.0	12.0
FPD0650-3R3MNP	3.30±20%		12.5	11.0	10.0
FPD0650-4R3MNP	4.30±20%		16.2	9.00	8.50
FPD0650-4R7MNP	4.70±20%		18.4	8.50	8.00

ELECTRICAL CHARACTERISTICS FOR FPD0660 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0660-1R0MNP	1.00±20%	100KHz/1V	4.40	21.0	19.0
FPD0660-1R5MNP	1.50±20%		6.10	17.5	15.0
FPD0660-2R2MNP	2.20±20%		8.10	14.0	12.5
FPD0660-3R3MNP	3.30±20%		12.3	12.0	11.0
FPD0660-4R7MNP	4.70±20%		14.4	11.0	9.3
FPD0660-5R6MNP	5.60±20%		15.9	10.0	8.7
FPD0660-6R8MNP	6.80±20%		20.8	9.0	8.1

ELECTRICAL CHARACTERISTICS FOR FPD0720 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0720-R27NNP	0.27±30%	100KHz/1V	3.50	21.0	32.0
FPD0720-R31MNP	0.31±20%		4.80	20.0	31.0
FPD0720-R33MNP	0.33±20%		4.80	19.0	31.0
FPD0720-R47MNP	0.47±20%		6.20	17.0	25.0
FPD0720-R68MNP	0.68±20%		9.20	13.0	23.0
FPD0720-1R0MNP	1.00±20%		10.8	11.0	20.0

ELECTRICAL CHARACTERISTICS FOR FPD0730 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0730-1R0MNP	1.00±20%	100KHz/1V	5.00	21.8	28.0
FPD0730-1R5MNP	1.50±20%		8.25	15.3	23.5
FPD0730-2R2MNP	2.20±20%		13.7	13.0	17.0
FPD0730-2R7MNP	2.70±20%		15.4	11.4	13.5
FPD0730-3R3MNP	3.30±20%		18.0	10.0	13.0
FPD0730-4R7MNP	4.70±20%		26.7	9.0	12.2
FPD0730-5R6MNP	5.60±20%		33.2	7.3	11.5
FPD0730-6R8MNP	6.80±20%		42.5	6.8	11.0
FPD0730-8R2MNP	8.20±20%	48.8	5.9	9.0	

ELECTRICAL CHARACTERISTICS FOR FPD0770 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0770-3R3MNP	3.30±20%	100KHz/1V	9.42	15.1	15.1
FPD0770-4R7MNP	4.70±20%		13.5	13.6	14.0
FPD0770-6R8MNP	6.80±20%		19.6	9.5	11.0

ELECTRICAL CHARACTERISTICS FOR FPD0880 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD0880-1R8MNP	1.80±20%	100KHz/1V	4.00	24.0	24.0
FPD0880-2R2MNP	2.20±20%		4.30	21.5	22.0
FPD0880-3R3MNP	3.30±20%		7.30	18.0	20.0
FPD0880-4R7MNP	4.70±20%		9.80	14.6	17.0
FPD0880-6R8MNP	6.80±20%		14.3	11.3	12.5
FPD0880-100MNP	10.0±20%		22.9	8.7	10.0

ELECTRICAL CHARACTERISTICS FOR FPD1030 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD1030-R28MNP	0.28±30%	100KHz/1V	1.60	35.0	58.0
FPD1030-R56MNP	0.56±20%		2.75	32.0	39.0
FPD1030-R82MNP	0.82±20%		4.10	25.0	32.0
FPD1030-R90MNP	0.90±20%		4.20	24.0	31.0
FPD1030-1R0MNP	1.00±20%		4.95	23.0	30.0
FPD1030-1R5MNP	1.50±20%		6.60	18.0	25.0

ELECTRICAL CHARACTERISTICS FOR FPD1060 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD1060-R68MNP	0.68±20%	100KHz/1V	1.50	34.0	50.0
FPD1060-1R0MNP	1.00±20%		2.32	28.5	44.0
FPD1060-1R2MNP	1.20±20%		2.64	26.5	40.0
FPD1060-1R5MNP	1.50±20%		3.30	24.5	36.0
FPD1060-2R2MNP	2.20±20%		4.84	20.0	30.0
FPD1060-3R3MNP	3.30±20%		7.70	16.8	25.0
FPD1060-4R7MNP	4.70±20%		10.8	14.0	22.0

ELECTRICAL CHARACTERISTICS FOR FPD1010 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD1010-3R3MNP	3.30±20%	100KHz/1V	4.10	25.0	23.4
FPD1010-4R7MNP	4.70±20%		5.70	24.0	21.4
FPD1010-5R6MNP	5.60±20%		7.20	21.2	19.6
FPD1010-6R8MNP	6.80±20%		8.90	18.5	18.5
FPD1010-8R2MNP	8.20±20%		12.4	17.1	16.3
FPD1010-100MNP	100±20%		13.8	15.5	14.6
FPD1010-150MNP	150±20%		19.3	13.8	12.5

ELECTRICAL CHARACTERISTICS FOR FPD1580 SERIES

Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD1580-2R0MNP	2.00±30%	100KHz/1V	2.21	40.0	52.0
FPD1580-2R2MNP	2.20±20%		2.48	37.0	49.0
FPD1580-3R0MNP	3.00±20%		3.00	34.5	41.0
FPD1580-4R2MNP	4.20±20%		4.68	27.0	33.0
FPD1580-5R3MNP	5.30±20%		5.34	26.0	31.0
FPD1580-6R2MNP	6.20±20%		6.50	23.0	31.0
FPD1580-7R2MNP	7.20±20%		7.20	21.0	29.0
FPD1580-8R2MNP	8.20±20%		7.92	19.0	25.0

ELECTRICAL CHARACTERISTICS FOR FPD1510 SERIES

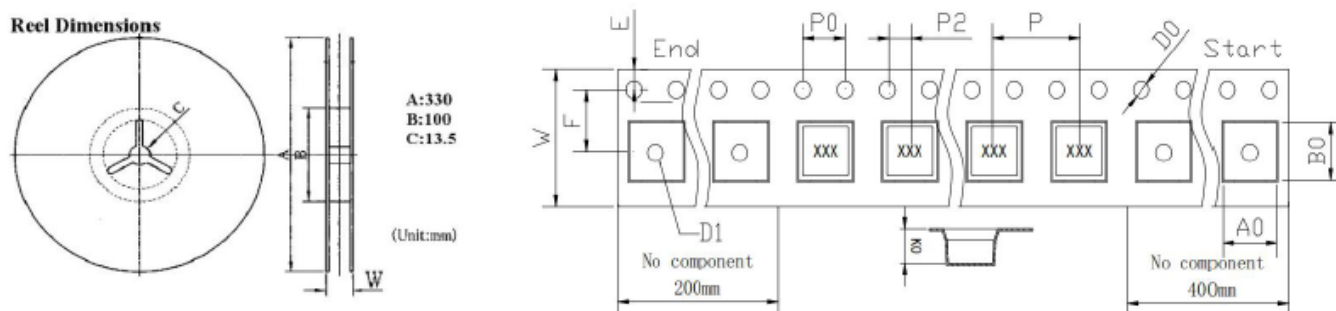
Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD1510-4R7MNP	4.70±20%	100KHz/1V	3.80	30.0	39.0
FPD1510-5R6MNP	5.60±20%		4.20	28.0	34.0
FPD1510-6R8MNP	6.80±20%		4.60	26.0	31.0
FPD1510-8R2MNP	8.20±20%		7.20	25.0	28.0

ELECTRICAL CHARACTERISTICS FOR FPD1513 SERIES					
Part Number	Inductance (uH)	Test Condition (KHz)	DCR (mΩ) MAX	I rms (A) TYPICAL	I sat (A) TYPICAL
FPD1513-4R7MNP	4.70±30%	100KHz/1V	3.30	31.0	40.0
FPD1513-5R6MNP	5.60±20%		3.90	29.0	35.0
FPD1513-6R8MNP	6.80±20%		4.20	27.0	32.0
FPD1513-8R2MNP	8.20±20%		5.74	26.0	29.0
FPD1513-100MNP	10.0±20%		7.00	25.0	27.0
FPD1513-150MNP	15.0±20%		7.50	22.0	21.0
FPD1513-220MNP	22.0±20%		13.9	17.0	19.0
FPD1513-330MNP	33.0±20%		22.2	14.0	16.0

Note:

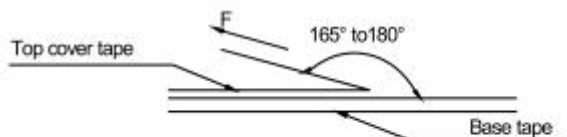
1. Tolerance of Inductance: N=±30% ,M=±20%.
2. All test data is referenced to 25°C ambient.
3. Inductance is measured at 100KHz. 25°C ambient.
4. Operating Temperature Range-50°C to +125°C.
5. DC current (Irms) (A) that will cause an approximate ΔT of 40°C.
6. DC current (Isat) (A) that will cause Lo to drop approximately 30%.
7. The part Temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified in the end application.

Taping Dimension for FPD series



Type	W	A0	B0	K0	P	P0	P2	F	E	D0/D1	Q'TY (PCS)
FPD0420	12.0	4.4	4.4	2.3	8.0	4.0	2.0	5.5	1.75	1.5	3000
FPD0430	12.0	4.4	4.0	2.3	8.0	4.0	2.0	5.5	1.75	1.5	2000
FPD0520	12.0	6.0	5.7	2.3	8.0	4.0	2.0	5.5	1.75	1.5	3000
FPD0530	16.0	6.0	5.7	3.3	8.0	4.0	2.0	7.5	1.75	1.5	2000
FPD0550	16.0	6.0	5.7	5.3	8.0	4.0	2.0	7.5	1.75	1.5	1500
FPD0630	16.0	7.0	6.8	3.3	12.0	4.0	2.0	7.5	1.75	1.5	1000
FPD0650	16.0	7.0	6.8	5.3	12.0	4.0	2.0	7.5	1.75	1.5	800
FPD0660	16.0	7.0	6.8	6.3	12.0	4.0	2.0	7.5	1.75	1.5	750
FPD0720	16.0	8.2	8.0	2.3	12.0	4.0	2.0	7.5	1.75	1.5	2000
FPD0730	16.0	8.2	8.0	3.3	12.0	4.0	2.0	7.5	1.75	1.5	1500
FPD0770	16.0	8.2	8.0	7.3	12.0	4.0	2.0	7.5	1.75	1.5	700
FPD0880	24.0	9.4	8.5	8.5	16.0	4.0	2.0	11.5	1.75	1.5	450
FPD1030	24.0	12.4	11.5	3.3	16.0	4.0	2.0	11.5	1.75	1.5	1000
FPD1060	24.0	12.4	11.5	6.3	16.0	4.0	2.0	11.5	1.75	1.5	500
FPD1010	24.0	12.4	11.5	10.3	16.0	4.0	2.0	11.5	1.75	1.5	300
FPD1580	32.0	17.0	16.0	8.5	24.0	4.0	2.0	14.2	1.75	1.5	200
FPD1510	32.0	17.0	16.0	10.5	24.0	4.0	2.0	14.2	1.75	1.5	150
FPD1513	32.0	17.0	16.0	13.6	24.0	4.0	2.0	14.2	1.75	1.5	100

● **Tearing Off Force**



Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

The force tearing off cover 10 to 130 grams (0.1N to 1.3N) in the arrow direction under the following conditions.

● **Storage conditions/Note things**

(1) Storage temperature and humidity conditions :

1. Product packing with Carrier tape: +5°C~+40°C and less than 60% RH.
2. Product alone: -20°C~+60°C and less than 60% RH.

(2) Products should be used within 6 months.

(3) The packaging material should be kept where no chlorine or sulfur exists in the air.

(4) Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability.

(5) The use of tweezers or vacuum pick-ups is strongly recommended for individual components.

(6) Bulk handling should ensure that abrasion and mechanical shock are minimized

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