



SMD POWER INDUCTORS / AFPI Series

• Features

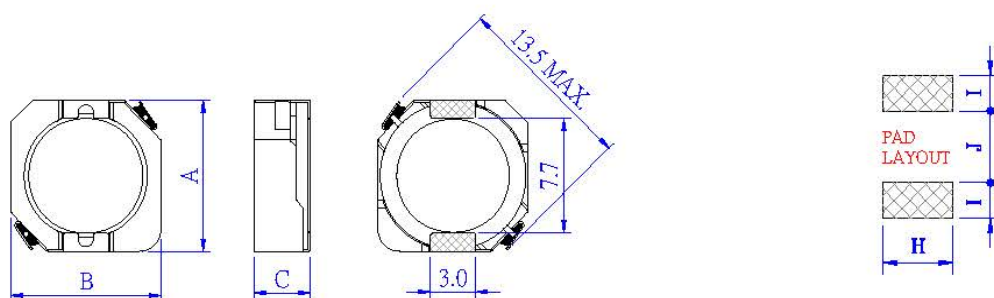
1. To be high saturation for surface mounting.
2. Surface mounts inductor with high current rating.
3. Low resistance to keep power loss minimum.
4. Packed in embossed carrier tape and can be used by automatic mounting machine.

• Applications

Excellent as VTR, OA equipment, LCD television sets, notebook PC, portable communication equipments, DC/DC converters, etc.

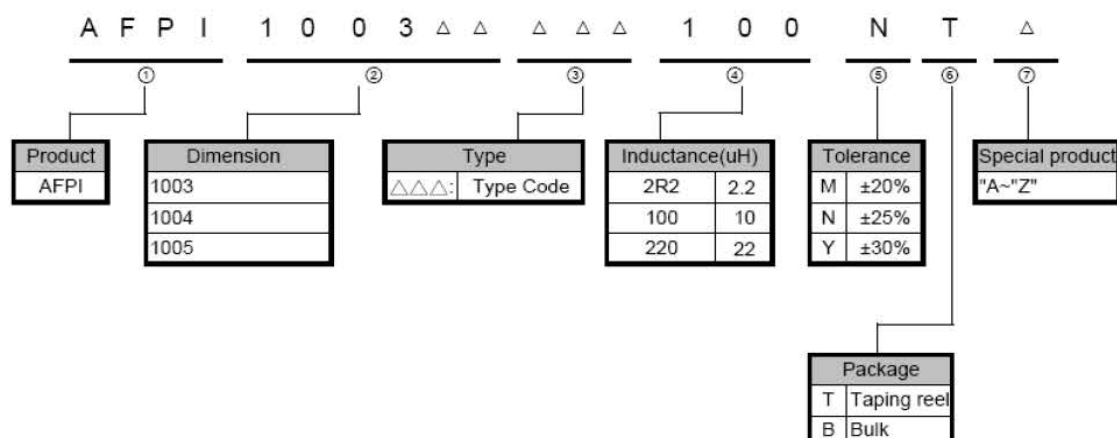


• Shape & Dimensions



TYPE	A (mm)	B (mm)	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
AFPI1003	10.5 MAX.	10.3 MAX.	3.1 MAX.	3.6	1.7	7.3
AFPI1004	10.5 MAX.	10.3 MAX.	4.0 MAX.	3.6	1.7	7.3
AFPI1005	10.5 MAX.	10.3 MAX.	5.1 MAX.	3.6	1.7	7.3

■ PRODUCT IDENTIFICATION



◆ AFPI1003 Series Specification :

Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (KHz)	DCR ($m\Omega$) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AFPI10030R8□T	0.8	Y	100	5.7	11.20	8.30
AFPI10031R5□T	1.5	Y	100	11.0	8.00	5.80
AFPI10032R2□T	2.2	Y	100	16.9	6.70	5.10
AFPI10033R3□T	3.3	Y	100	21.0	5.56	4.70
AFPI10034R7□T	4.7	Y	100	30.0	4.65	4.00
AFPI10036R8□T	6.8	M,N	100	35.0	3.84	3.60
AFPI10038R2□T	8.2	M,N	100	50.0	3.54	3.00
AFPI1003100□T	10	M,N	100	59.0	3.18	2.80
AFPI1003150□T	15	M,N	100	91.0	2.60	2.05
AFPI1003220□T	22	M,N	100	143.0	2.16	1.60
AFPI1003330□T	33	M,N	100	202.0	1.74	1.35
AFPI1003470□T	47	M,N	100	299.0	1.43	1.20
AFPI1003560□T	56	M,N	100	325.0	1.36	1.15
AFPI1003680□T	68	M,N	100	429.0	1.22	0.95
AFPI1003820□T	82	M,N	100	494.0	1.14	0.80
AFPI1003101□T	100	M,N	100	683.0	1.02	0.70
AFPI1003121□T	120	M,N	100	754.0	0.89	0.65
AFPI1003151□T	150	M,N	100	871.0	0.84	0.51

NOTE :

* The operating temperature range is -40°C to $+105^{\circ}\text{C}$ (Including self-temperature rise)

* □ Tolerance M : $\pm 20\%$, N : $\pm 25\%$, Y : $\pm 30\%$

* Isat: For Inductance drop 35% from its value without current.

* Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^{\circ}\text{C}$. ($T_a = 25^{\circ}\text{C}$)

◆ AFPI1004 Series Specification :

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AFPI10041R5□T	1.5	Y	100	8.1	10.00	6.50
AFPI10042R5□T	2.5	Y	100	10.5	7.50	6.10
AFPI10043R8□T	3.8	Y	100	13.0	6.00	5.50
AFPI10045R2□T	5.2	M,N	100	22.0	5.50	5.40
AFPI10047R0□T	7.0	M,N	100	34.0	4.80	4.50
AFPI1004100□T	10	M,N	100	35.0	4.40	3.80
AFPI1004150□T	15	M,N	100	50.0	3.60	3.10
AFPI1004220□T	22	M,N	100	73.0	2.90	2.50
AFPI1004330□T	33	M,N	100	105.0	2.30	2.20
AFPI1004470□T	47	M,N	100	128.0	2.10	1.90
AFPI1004680□T	68	M,N	100	213.0	1.50	1.42
AFPI1004101□T	100	M,N	100	304.0	1.35	1.25
AFPI1004151□T	150	M,N	100	506.0	1.15	0.85
AFPI1004221□T	220	M,N	100	756.0	0.92	0.70
AFPI1004331□T	330	M,N	100	1090.0	0.70	0.52

NOTE :

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* Isat: For Inductance drop 35% from its value without current.

* Irms: The value of D.C current when the temperature rise is $\Delta T \leq 40^{\circ}\text{C}$. (Ta=25℃)

◆ AFPI1005 Series Specification :

Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (KHz)	DCR ($m\Omega$) Max.	Saturation Current (A) Max.	Temp. Rise current (A) Max.
AFPI10050R8□T	0.8	Y	100	4.3	9.50	13.50
AFPI10051R5□T	1.5	Y	100	5.8	8.30	10.50
AFPI10052R2□T	2.2	Y	100	7.2	7.50	9.25
AFPI10053R3□T	3.3	Y	100	10.4	6.50	7.80
AFPI10054R7□T	4.7	Y	100	12.3	6.10	6.40
AFPI10056R8□T	6.8	M,N	100	18.0	5.40	5.40
AFPI10058R2□T	8.2	M,N	100	20.0	5.00	4.85
AFPI1005100□T	10	M,N	100	26.0	4.50	4.45
AFPI1005120□T	12	M,N	100	33.0	3.80	4.00
AFPI1005150□T	15	M,N	100	41.0	3.40	3.60
AFPI1005180□T	18	M,N	100	46.0	3.10	3.20
AFPI1005220□T	22	M,N	100	61.0	2.95	2.90
AFPI1005270□T	27	M,N	100	69.0	2.60	2.70
AFPI1005330□T	33	M,N	100	84.0	2.50	2.40
AFPI1005390□T	39	M,N	100	106.0	2.25	2.30
AFPI1005470□T	47	M,N	100	130.0	2.00	2.00
AFPI1005560□T	56	M,N	100	149.0	1.90	1.90
AFPI1005680□T	68	M,N	100	201.0	1.60	1.65
AFPI1005820□T	82	M,N	100	227.0	1.45	1.50
AFPI1005101□T	100	M,N	100	253.0	1.35	1.35
AFPI1005121□T	120	M,N	100	303.0	1.18	1.28
AFPI1005151□T	150	M,N	100	370.0	1.10	1.12
AFPI1005181□T	180	M,N	100	419.0	1.00	1.04
AFPI1005221□T	220	M,N	100	500.0	0.94	0.94
AFPI1005271□T	270	M,N	100	672.0	0.80	0.84
AFPI1005331□T	330	M,N	100	812.0	0.73	0.75
AFPI1005391□T	390	M,N	100	953.0	0.70	0.70
AFPI1005471□T	470	M,N	100	1289.0	0.54	0.60
AFPI1005561□T	560	M,N	100	1430.0	0.52	0.54
AFPI1005681□T	680	M,N	100	1599.0	0.51	0.52
AFPI1005821□T	820	M,N	100	1768.0	0.48	0.50
AFPI1005102□T	1000	M,N	100	1989.0	0.42	0.48

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