

SMD POWER INDUCTORS / APIW Series

• Features

1. Low profile very effective in space-conscious applications.
2. Low resistance and high energy storage.

• Applications

Excellent as DC-DC Converter used in notebooks computers, PDA and mobile headphones. Step-up or step-down converters.



• Shape & Dimensions

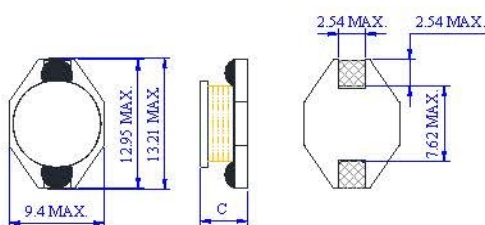


Fig.1

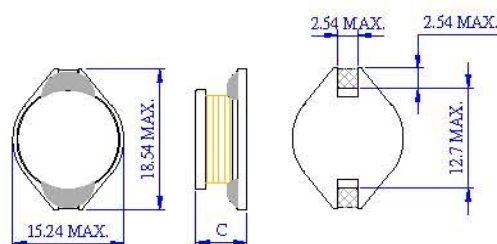
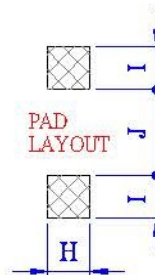
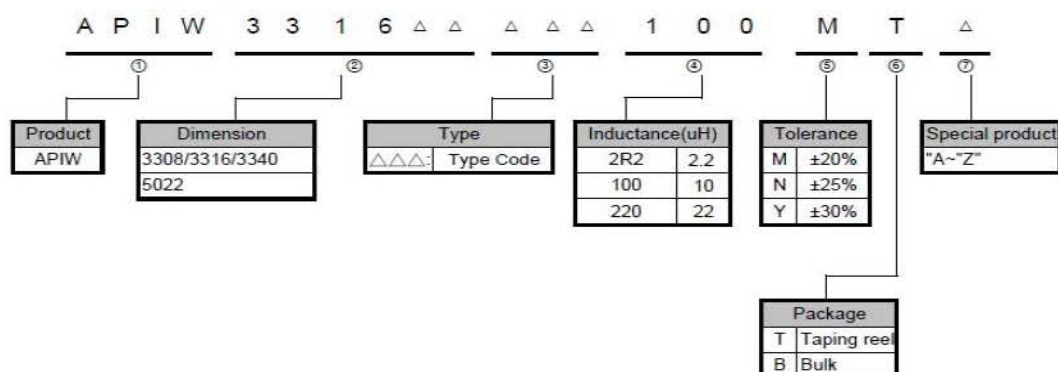


Fig.2



TYPE	Figure	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
APIW3308	1	3.00 MAX.	2.79	2.92	7.37
APIW3316	1	5.21 MAX.	2.79	2.92	7.37
APIW3340	1	11.43 MAX.	2.79	2.92	7.37
APIW5022	2	7.11 MAX.	2.79	2.92	12.45

■ PRODUCT IDENTIFICATION



◆ APIW3308 Series Specification :

Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (KHz)	DCR ($m\Omega$) Max.	Saturation Current (A) Max.
APIW3308100□T	10	M,N	100	85	2.4
APIW3308150□T	15	M,N	100	120	2.0
APIW3308220□T	22	M,N	100	180	1.6
APIW3308330□T	33	M,N	100	250	1.4
APIW3308470□T	47	M,N	100	320	1.0
APIW3308680□T	68	M,N	100	540	0.9
APIW3308101□T	100	M,N	100	690	0.7
APIW3308151□T	150	M,N	100	940	0.6
APIW3308221□T	220	M,N	100	1600	0.5
APIW3308331□T	330	M,N	100	2150	0.4
APIW3308471□T	470	M,N	100	3300	0.3
APIW3308681□T	680	M,N	100	4400	0.2
APIW3308102□T	1000	M,N	100	7000	0.1

NOTE :

* The operating temperature range is -40℃ to +125℃ (Including self-temperature rise)

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

* Isat: For Inductance drop 15% from its value without current.

◆ APIW3316 Series Specification :

Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (KHz)	DCR ($m\Omega$) Max.	Saturation Current (A) Max.
APIW33161R0□T	1.0	Y	100	9	9.0
APIW33161R5□T	1.5	Y	100	10	8.0
APIW33162R2□T	2.2	Y	100	12	7.0
APIW33163R3□T	3.3	Y	100	15	6.4
APIW33164R7□T	4.7	Y	100	18	5.4
APIW33166R8□T	6.8	M,N	100	27	4.6
APIW3316100□T	10	M,N	100	38	3.8
APIW3316150□T	15	M,N	100	46	3.0
APIW3316220□T	22	M,N	100	85	2.6
APIW3316330□T	33	M,N	100	100	2.0
APIW3316470□T	47	M,N	100	140	1.6
APIW3316680□T	68	M,N	100	200	1.4
APIW3316101□T	100	M,N	100	280	1.2
APIW3316151□T	150	M,N	100	400	1.0
APIW3316221□T	220	M,N	100	610	0.8
APIW3316331□T	330	M,N	100	1020	0.6
APIW3316471□T	470	M,N	100	1270	0.5
APIW3316681□T	680	M,N	100	2020	0.4
APIW3316102□T	1000	M,N	100	3000	0.3

NOTE :

* The operating temperature range is -40°C to $+125^{\circ}\text{C}$ (Including self-temperature rise)

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

*Isat:For Inductance drop 15% from its value without current.

◆ APIW3340 Series Specification :

Part Number	Inductance (μ H)	Inductance Tolerance	Test Freq. (KHz)	DCR ($m\Omega$) Max.	Saturation Current (A) Max.
APIW3340100□T	10	M,N	100	40	8.0
APIW3340150□T	15	M,N	100	50	7.0
APIW3340220□T	22	M,N	100	66	5.5
APIW3340330□T	33	M,N	100	80	4.0
APIW3340470□T	47	M,N	100	110	3.8
APIW3340680□T	68	M,N	100	170	3.0
APIW3340101□T	100	M,N	100	220	2.5
APIW3340151□T	150	M,N	100	340	2.0
APIW3340221□T	220	M,N	100	440	1.6
APIW3340331□T	330	M,N	100	700	1.2
APIW3340471□T	470	M,N	100	950	1.0
APIW3340681□T	680	M,N	100	1400	1.0
APIW3340102□T	1000	M,N	100	2000	0.8

NOTE :

* The operating temperature range is -40°C to $+125^{\circ}\text{C}$ (Including self-temperature rise)

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

* Isat: For Inductance drop 15% from its value without current.

◆ APIW5022 Series Specification :

Part Number	Inductance (uH)	Inductance Tolerance	Test Freq. (KHz)	DCR (mΩ) Max.	Saturation Current (A) Max.
APIW50221R0□T	1.0	Y	100	9	20.0
APIW50222R2□T	2.2	Y	100	14	16.0
APIW50223R3□T	3.3	Y	100	15	14.0
APIW50225R6□T	5.6	M,N	100	20	12.0
APIW5022100□T	10	M,N	100	31	10.0
APIW5022150□T	15	M,N	100	36	8.0
APIW5022220□T	22	M,N	100	47	7.0
APIW5022330□T	33	M,N	100	66	5.5
APIW5022470□T	47	M,N	100	86	4.5
APIW5022680□T	68	M,N	100	130	3.5
APIW5022101□T	100	M,N	100	190	3.0
APIW5022151□T	150	M,N	100	250	2.6
APIW5022221□T	220	M,N	100	380	2.4
APIW5022331□T	330	M,N	100	560	1.9
APIW5022471□T	470	M,N	100	850	1.4
APIW5022681□T	680	M,N	100	1400	1.2
APIW5022102□T	1000	M,N	100	1800	1.0

NOTE :

* The operating temperature range is -40℃ to +125℃ (Including self-temperature rise)

* □ Tolerance M : ±20% , N : ±25% , Y : 30%

*Isat:For Inductance drop 15% from its value without current.