

## *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, flash memory.



### ● Shape & Dimensions

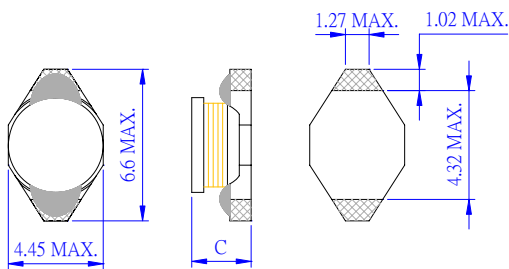


Fig.1

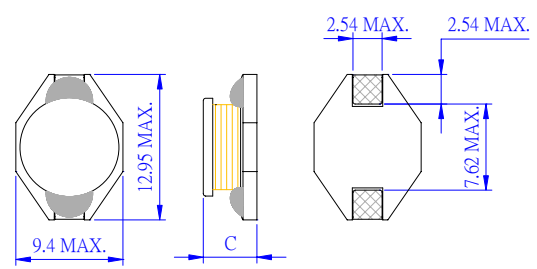


Fig.2

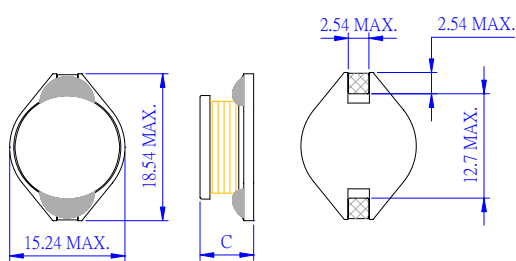
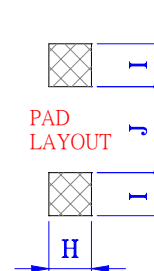


Fig.3



TYPE	Figure	C (mm)	H (Ref.)	I (Ref.)	J (Ref.)
APIW1608	1	2.92 MAX.	3.56	1.40	4.06
APIW3308	2	3.00 MAX.	2.79	2.92	7.37
APIW3316	2	5.21 MAX.	2.79	2.92	7.37
APIW3340	2	11.43 MAX.	2.79	2.92	7.37
APIW5022	3	7.11 MAX.	2.79	2.92	12.45

## ◆ APIW1608 Series Specification :

Part Number	Inductance (H)	Test Frequency (Hz)	DCR (Ω) Max.	Rated Current (A) Max.
APIW16081R0□	1.0 u	100 K	50 m	2.90
APIW16081R5□	1.5 u	100 K	50 m	2.60
APIW16082R2□	2.2 u	100 K	70 m	2.30
APIW16083R3□	3.3 u	100 K	80 m	2.00
APIW16084R7□	4.7 u	100 K	90 m	1.50
APIW16086R8□	6.8 u	100 K	130 m	1.20
APIW1608100□	10 u	100 K	160 m	1.10
APIW1608150□	15 u	100 K	230 m	0.90
APIW1608220□	22 u	100 K	370 m	0.70
APIW1608330□	33 u	100 K	510 m	0.58
APIW1608470□	47 u	100 K	640 m	0.50
APIW1608680□	68 u	100 K	860 m	0.40
APIW1608101□	100 u	100 K	1.27	0.31
APIW1608151□	150 u	100 K	2.00	0.27
APIW1608221□	220 u	100 K	2.65	0.22
APIW1608331□	330 u	100 K	3.80	0.18
APIW1608471□	470 u	100 K	5.06	0.16
APIW1608681□	680 u	100 K	9.20	0.14
APIW1608102□	1000 u	100 K	13.8	0.10

### NOTE :

\* The operating temperature range is -25°C to +85°C

\* □ Tolerance K : ±10% , M : ±20%

## ◆ APIW3308 Series Specification :

Part Number	Inductance (H)	Test Frequency (Hz)	DCR (Ω) Max.	Rated Current (A) Max.
APIW3308100□	10 u	100 K	85 m	2.4
APIW3308150□	15 u	100 K	120 m	2.0
APIW3308220□	22 u	100 K	180 m	1.6
APIW3308330□	33 u	100 K	250 m	1.4
APIW3308470□	47 u	100 K	320 m	1.0
APIW3308680□	68 u	100 K	540 m	0.9
APIW3308101□	100 u	100 K	690 m	0.7
APIW3308151□	150 u	100 K	940 m	0.6
APIW3308221□	220 u	100 K	1.60	0.5
APIW3308331□	330 u	100 K	2.15	0.4
APIW3308471□	470 u	100 K	3.30	0.3
APIW3308681□	680 u	100 K	4.40	0.2
APIW3308102□	1000 u	100 K	7.00	0.1

### NOTE :

\* The operating temperature range is -25°C to +85°C

\* □ Tolerance K : ±10% , M : ±20%

## ◆ APIW3316 Series Specification :

Part Number	Inductance (H)	Test Frequency (Hz)	DCR ( $\Omega$ ) Max.	Rated Current (A) Max.
APIW33161R0□	1.0 u	100 K	9 m	9.0
APIW33161R5□	1.5 u	100 K	10 m	8.0
APIW33162R2□	2.2 u	100 K	12 m	7.0
APIW33163R3□	3.3 u	100 K	15 m	6.4
APIW33164R7□	4.7 u	100 K	18 m	5.4
APIW33166R8□	6.8 u	100 K	27 m	4.6
APIW3316100□	10 u	100 K	38 m	3.8
APIW3316150□	15 u	100 K	46 m	3.0
APIW3316220□	22 u	100 K	85 m	2.6
APIW3316330□	33 u	100 K	0.10	2.0
APIW3316470□	47 u	100 K	0.14	1.6
APIW3316680□	68 u	100 K	0.20	1.4
APIW3316101□	100 u	100 K	0.28	1.2
APIW3316151□	150 u	100 K	0.40	1.0
APIW3316221□	220 u	100 K	0.61	0.8
APIW3316331□	330 u	100 K	1.02	0.6
APIW3316471□	470 u	100 K	1.27	0.5
APIW3316681□	680 u	100 K	2.02	0.4
APIW3316102□	1000 u	100 K	3.00	0.3

### NOTE :

\* The operating temperature range is  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

\* □ Tolerance K :  $\pm 10\%$  , M :  $\pm 20\%$

## ◆ APIW3340 Series Specification :

Part Number	Inductance (H)	Test Frequency (Hz)	DCR ( $\Omega$ ) Max.	Rated Current (A) Max.
APIW3340100□	10 u	100 K	22.0	8.0
APIW3340150□	15 u	100 K	18.0	7.0
APIW3340220□	22 u	100 K	11.0	5.5
APIW3340330□	33 u	100 K	9.0	4.0
APIW3340470□	47 u	100 K	8.0	3.8
APIW3340680□	68 u	100 K	7.0	3.0
APIW3340101□	100 u	100 K	5.0	2.5
APIW3340151□	150 u	100 K	4.0	2.0
APIW3340221□	220 u	100 K	3.5	1.6
APIW3340331□	330 u	100 K	2.5	1.2
APIW3340471□	470 u	100 K	2.0	1.0
APIW3340681□	680 u	100 K	2.0	1.0
APIW3340102□	1000 u	100 K	1.5	0.8

### NOTE :

\* The operating temperature range is  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

\* □ Tolerance K :  $\pm 10\%$  , M :  $\pm 20\%$

## ◆ APIW5022 Series Specification :

Part Number	Inductance (H)	Test Frequency (Hz)	DCR ( $\Omega$ ) Max.	Rated Current (A) Max.
APIW50221R0□	1.0 u	100 K	9 m	20.0
APIW50222R2□	2.2 u	100 K	14 m	16.0
APIW50223R3□	3.3 u	100 K	15 m	14.0
APIW50225R6□	5.6 u	100 K	20 m	12.0
APIW5022100□	10 u	100 K	31 m	10.0
APIW5022150□	15 u	100 K	36 m	8.0
APIW5022220□	22 u	100 K	47 m	7.0
APIW5022330□	33 u	100 K	66 m	5.5
APIW5022470□	47 u	100 K	86 m	4.5
APIW5022680□	68 u	100 K	130 m	3.5
APIW5022101□	100 u	100 K	190 m	3.0
APIW5022151□	150 u	100 K	250 m	2.6
APIW5022221□	220 u	100 K	380 m	2.4
APIW5022331□	330 u	100 K	560 m	1.9
APIW5022471□	470 u	100 K	850 m	1.4
APIW5022681□	680 u	100 K	1.10	1.2
APIW5022102□	1000 u	100 K	1.80	1.0

### NOTE :

\* The operating temperature range is  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

\* □ Tolerance K :  $\pm 10\%$  , M :  $\pm 20\%$