

## Feature

1. High current and inductance capacity.
2. Specially designed for surface mounting.  
equipment, good for high density applicaton.
3. Low profile very effective in space-conscious applications.
4. Low resistance and high-energy storage.

## Application

Power supply for VCR, OA equipment, LCD TV,  
Notebook PC, DC/DC Converter, DC/AC Inverter.

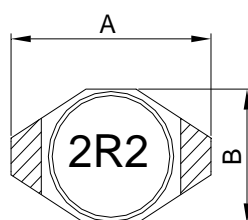
## Product Identification

**W SPT 3316 - 2R2**

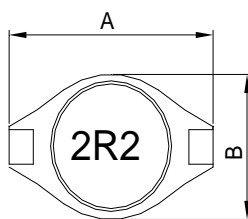
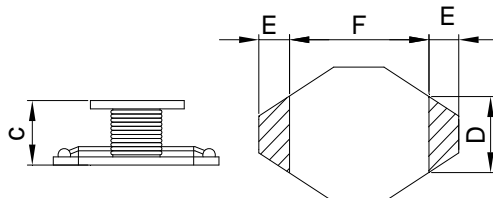
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1. Lead-Free part number.
2. Series name.
3. Dimension.
4. Inductance. ( See Details )
5. Tolerance. ( See Details )

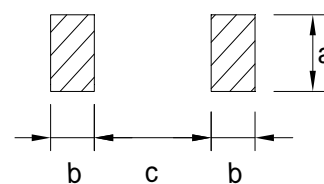
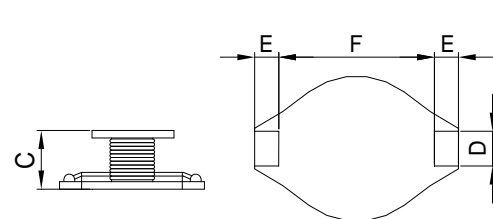
## Configurations & Dimensions



Dimension : 1608



Dimension : 3316 , 3340 ,  
5022



PCB Pattern

Series Name	A	B	C	D	E	F	a	b	c
SPT1608	6.6 max.	4.45 max.	2.92 max.	1.27±0.2	1.02±0.2	4.32±0.3	3.56	1.40	4.06
SPT3316	13.0±0.2	10.0±0.2	5.0±0.3	2.2±0.2	2.4±0.2	7.6±0.3	2.80	3.00	7.30
SPT3340	13.0±0.2	10.0±0.2	11.0±0.5	2.2±0.2	2.4±0.2	7.6±0.3	2.80	3.00	7.30
SPT5022	18.6±0.3	15.0±0.3	7.0±0.5	2.2±0.2	2.4±0.2	13.3±0.3	2.80	3.00	12.7

Unit: mm

## Unshielded Construction - SMD / SPT Series

### Electrical Characteristics / SPT1608

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Temperature Rise Current Max. ( mA )	Saturation Current Max. ( mA )
WP21S0101-00	SPT1608-1R0 __	1.0	0.1/100K	50	2,900	2,900
WP21S0102-00	SPT1608-1R5 __	1.5	0.1/100K	50	2,800	2,600
WP21S0103-00	SPT1608-2R2 __	2.2	0.1/100K	70	2,400	2,300
WP21S0104-00	SPT1608-3R3 __	3.3	0.1/100K	80	2,000	2,000
WP21S0105-00	SPT1608-4R7 __	4.7	0.1/100K	90	1,500	1,500
WP21S0106-00	SPT1608-6R8 __	6.8	0.1/100K	130	1,400	1,200
WP21S0107-00	SPT1608-100 __	10	0.1/100K	160	1,100	1,100
WP21S0108-00	SPT1608-150 __	15	0.1/100K	230	1,000	900
WP21S0109-00	SPT1608-220 __	22	0.1/100K	270	800	700
WP21S0110-00	SPT1608-330 __	33	0.1/100K	510	600	580
WP21S0111-00	SPT1608-470 __	47	0.1/100K	640	500	500
WP21S0112-00	SPT1608-680 __	68	0.1/100K	860	400	500
WP21S0113-00	SPT1608-101 __	100	0.1/100K	1,270	300	310
WP21S0114-00	SPT1608-151 __	150	0.1/100K	2,000	250	270
WP21S0115-00	SPT1608-221 __	220	0.1/100K	3,110	200	220
WP21S0116-00	SPT1608-331 __	330	0.1/100K	3,800	160	180
WP21S0117-00	SPT1608-471 __	470	0.1/100K	5,060	150	160
WP21S0118-00	SPT1608-681 __	680	0.1/100K	9,200	120	140
WP21S0119-00	SPT1608-102 __	1000	0.1/100K	13,800	70	100

※ Temperature Rise Current that will cause temperature rise approximate 40°C without core loss. (Ta=25±5°C)

※ Saturation Rated Current that will cause initial inductance value approximately 10% rolloff. (Ta=25±5°C)

## Unshielded Construction - SMD / SPT Series

### Electrical Characteristics / SPT3316

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Temperature Rise Current Max. ( mA )	Saturation Current Max. ( mA )
WP21S0401-00	SPT3316-1R0 __	1.0	0.1/100K	9	6,800	9,000
WP21S0402-00	SPT3316-1R5 __	1.4	0.1/100K	10	6,400	8,000
WP21S0403-00	SPT3316-2R2 __	2.2	0.1/100K	12	6,100	7,000
WP21S0404-00	SPT3316-3R3 __	3.3	0.1/100K	15	5,400	5,800
WP21S0405-00	SPT3316-4R7 __	4.7	0.1/100K	18	4,800	5,200
WP21S0406-00	SPT3316-6R8 __	6.8	0.1/100K	27	4,400	4,300
WP21S0407-00	SPT3316-100 __	10	0.1/100K	38	3,900	3,400
WP21S0408-00	SPT3316-150 __	15	0.1/100K	46	3,100	3,000
WP21S0409-00	SPT3316-220 __	22	0.1/100K	85	2,700	2,500
WP21S0410-00	SPT3316-330 __	33	0.1/100K	100	2,100	2,000
WP21S0411-00	SPT3316-470 __	47	0.1/100K	140	1,800	1,800
WP21S0412-00	SPT3316-680 __	68	0.1/100K	200	1,500	1,400
WP21S0413-00	SPT3316-101 __	100	0.1/100K	280	1,300	1,100
WP21S0414-00	SPT3316-151 __	150	0.1/100K	400	1,000	900
WP21S0415-00	SPT3316-221 __	220	0.1/100K	610	800	800
WP21S0416-00	SPT3316-331 __	330	0.1/100K	1,020	600	600
WP21S0417-00	SPT3316-471 __	470	0.1/100K	1,270	500	500
WP21S0418-00	SPT3316-681 __	680	0.1/100K	2,020	400	400
WP21S0419-00	SPT3316-102 __	1000	0.1/100K	3,000	300	300

### Electrical Characteristics / SPT3340

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Temperature Rise Current Max. ( mA )	Saturation Current Max. ( mA )
WP21S0507-00	SPT3340-100 __	10	0.1/100K	40	3,500	7,000
WP21S0508-00	SPT3340-150 __	15	0.1/100K	50	3,200	5,800
WP21S0509-00	SPT3340-220 __	22	0.1/100K	66	2,900	4,800
WP21S0510-00	SPT3340-330 __	33	0.1/100K	80	2,350	3,800
WP21S0511-00	SPT3340-470 __	47	0.1/100K	110	2,100	3,400
WP21S0512-00	SPT3340-680 __	68	0.1/100K	170	1,900	2,700
WP21S0513-00	SPT3340-101 __	100	0.1/100K	220	1,550	2,200
WP21S0514-00	SPT3340-151 __	150	0.1/100K	340	1,350	1,900
WP21S0515-00	SPT3340-221 __	220	0.1/100K	440	1,000	1,500
WP21S0516-00	SPT3340-331 __	330	0.1/100K	700	900	1,300
WP21S0517-00	SPT3340-471 __	470	0.1/100K	950	750	1,000
WP21S0518-00	SPT3340-681 __	680	0.1/100K	1,200	550	900
WP21S0519-00	SPT3340-102 __	1000	0.1/100K	2,000	500	700

※ Temperature Rise Current that will cause temperature rise approximate 40°C without core loss. (Ta=25±5°C)

※ Saturation Rated Current that will cause initial inductance value approximately 10% rolloff. (Ta=25±5°C)

## Unshielded Construction - SMD / SPT Series

### Electrical Characteristics / SPT5022

System Number	Part Number	Inductance ( $\mu$ H )	Test Frequency ( Volt / Hz )	DC Resistance Max. ( m $\Omega$ )	Temperature Rise Current Max. ( mA )	Saturation Current Max. ( mA )
WP21S0601-00	SPT5022-1R0 __	1.0	0.1/100K	9	8,600	20,000
WP21S0602-00	SPT5022-1R5 __	1.4	0.1/100K	12	7,500	18,000
WP21S0603-00	SPT5022-2R2 __	2.2	0.1/100K	14	7,100	16,000
WP21S0604-00	SPT5022-3R3 __	3.3	0.1/100K	18	6,200	14,000
WP21S0620-00	SPT5022-5R6 __	5.6	0.1/100K	20	5,300	12,000
WP21S0607-00	SPT5022-100 __	10	0.1/100K	31	4,300	10,000
WP21S0608-00	SPT5022-150 __	15	0.1/100K	36	4,000	8,000
WP21S0609-00	SPT5022-220 __	22	0.1/100K	47	3,500	7,000
WP21S0610-00	SPT5022-330 __	33	0.1/100K	66	3,000	5,500
WP21S0611-00	SPT5022-470 __	47	0.1/100K	86	2,600	4,500
WP21S0612-00	SPT5022-680 __	68	0.1/100K	130	2,300	3,500
WP21S0613-00	SPT5022-101 __	100	0.1/100K	190	1,800	3,000
WP21S0614-00	SPT5022-151 __	150	0.1/100K	250	1,500	2,600
WP21S0615-00	SPT5022-221 __	220	0.1/100K	380	1,200	2,400
WP21S0616-00	SPT5022-331 __	330	0.1/100K	560	1,000	1,900
WP21S0617-00	SPT5022-471 __	470	0.1/100K	850	820	1,400
WP21S0618-00	SPT5022-681 __	680	0.1/100K	1,100	720	1,200
WP21S0619-00	SPT5022-102 __	1000	0.1/100K	1,300	560	1,000

※ Temperature Rise Current that will cause temperature rise approximate 40°C without core loss. (Ta=25±5°C)

※ Saturation Rated Current that will cause initial inductance value approximately 10% rolloff. (Ta=25±5°C)