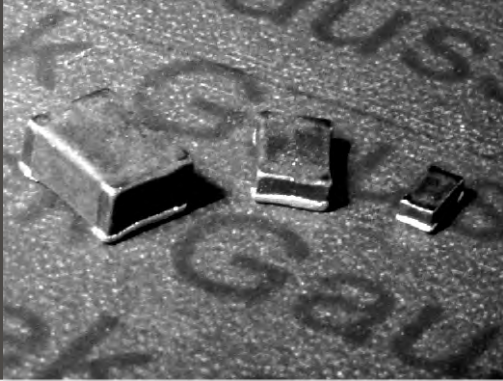


# WIRE WOUND CHIP POWER INDUCTORS

## Series WP *Ultra low D.C Resistance*



### OUTLINE

◆ Gausstek's high current chip inductors are SMD components that possess a ultra-low DC resistance. Their impedance mainly comprises resistive part. Therefore, when this component is inserted in series with a noise high current conduction path, the noise content can be attenuated.

### FEATURES

◆ Choke coil for DC/DC converter.  
It corresponds to high current.  
Excellent solder ability and heat resistance.  
100% Lead(Pb) & Halogen-Free and RoHS compliant.

### APPLICATIONS

◆ This series is suitable for very high DC current power line EMI suppression. For example :

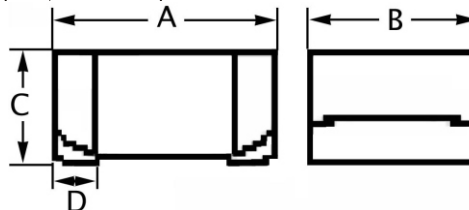
1. Various power lines of electronic equipment.
2. Mother board, tablet PC, notebook, desktop computers and peripheral equipment.
3. DSC, DVC, LCD Television, Set Top Box.
4. Digital communication equipment.
5. Various automotive electronics.

### PRODUCT IDENTIFICATION

$\frac{WP}{a} \frac{12}{b} \frac{Y}{c} \frac{08}{d} \frac{4}{e} \frac{M}{f} \frac{60R}{g}$

a : Type of products  
 b : Dimension - 12=4032/8530, 13=4532, 20=5650  
 c : Materials - Y Stylee  
 d : Thickness - 4=3.61mm, 13=3.2mm, 12=3.05mm, 09=2.3mm, 08=2.28mm, 07=1.8mm,06=1.52mm  
 e : Packing - PCS/REEL - 4=4,000, 3=3,000  
 f : Tolerance - K : ±10% M : ±20%  
 g : Impedance - 100N=0.1 μH , 1U1=1.1 μH

### SHAPES & DIMENSIONS



Unit : mm

Type	Alias in mm	A	B	C	D
WP08□07	160807	1.6±0.20	0.80±0.20	0.7 max.	0.45±0.15
WP08□08	160808	1.6±0.20	0.80±0.20	0.8±0.20	0.45±0.15
WP12□10	201210	2.0±0.20	1.25±0.20	1.0 max.	0.50±0.20
WP12□14	201214	2.0±0.20	1.25±0.20	1.4 max.	0.50±0.20
WP20□10	252010	2.5±0.20	2.0 max.	1.0 max.	0.50±0.20
WP25□17	322517	3.2±0.20	2.5±0.20	1.7 max.	0.75±0.20

### PACKING & QUANTITY

Type	Alias in mm	PCS/REEL
WP08□07	160807	3,000
WP08□08	160808	3,000
WP12□10	201210	3,000
WP12□14	201214	2,000
WP20□10	252010	3,000
WP25□17	322517	2,000

## WIRE WOUND CHIP POWER INDUCTORS

Series **WP** Ultra low D.C Resistance

### ELECTRICAL CHARACTERISTICS

Part Number	Inductance ( $\mu$ H)	Tolerance	Test Frequency (Hz)	RDC ( $\Omega$ ) $\pm 30\%$	Isat (mA) max.	Irms (mA) max.	SRF (MHz) min.
WP08P073M 1U	1.0	$\pm 20\%$	1M	0.230	510	650	700
WP08P073M 1U5	1.5	$\pm 20\%$	1M	0.280	440	590	600
WP08P073M 2U2	2.2	$\pm 20\%$	1M	0.400	360	500	400
WP08P073M 3U3	3.3	$\pm 20\%$	1M	0.650	290	390	300
WP08P073M 4U7	4.7	$\pm 20\%$	1M	1.000	240	210	150
WP08P073M 6U8	6.8	$\pm 20\%$	1M	1.640	200	250	100
WP08P073M 10U	10.0	$\pm 20\%$	1M	2.000	170	220	45
WP08L083M 1U	1.0	$\pm 20\%$	7.96M	0.090	290	770	100
WP08L083M 2U2	2.2	$\pm 20\%$	7.96M	0.170	190	560	80
WP08L083M 3U3	3.3	$\pm 20\%$	7.96M	0.220	170	500	60
WP08L083M 4U7	4.7	$\pm 20\%$	7.96M	0.240	145	470	45
WP08L083□ 10U	10.0	$\pm 10\%, \pm 20\%$	2.52M	0.360	115	380	32
WP08L083□ 22U	22.0	$\pm 10\%, \pm 20\%$	2.52M	1.000	70	230	16
WP08L083□ 47U	47.0	$\pm 10\%, \pm 20\%$	2.52M	2.500	50	140	11
WP08P083M 1U	1.0	$\pm 20\%$	7.96M	0.180	850	520	140
WP08P083M 1U5	1.5	$\pm 20\%$	7.96M	0.300	700	410	120
WP08P083M 2U2	2.2	$\pm 20\%$	7.96M	0.550	550	280	100
WP12P103M 1U	1.0	$\pm 20\%$	7.96M	0.135	850	850	300
WP12P103M 1U5	1.5	$\pm 20\%$	7.96M	0.180	700	750	250
WP12P103M 2U2	2.2	$\pm 20\%$	7.96M	0.300	600	550	200
WP12P103M 3U3	3.3	$\pm 20\%$	7.96M	0.500	490	440	190
WP12P103M 4U7	4.7	$\pm 20\%$	7.96M	0.550	340	400	150
WP12P103M 6U8	6.8	$\pm 20\%$	7.96M	0.750	290	350	60
WP12P103M 10U	10.0	$\pm 20\%$	2.52M	0.850	270	330	30
WP12P103M 15U	15.0	$\pm 20\%$	2.52M	1.000	220	300	15
WP12P103M 22U	22.0	$\pm 20\%$	2.52M	1.300	190	270	15
WP12P142M 1U	1.0	$\pm 20\%$	1M	0.060	1500	1400	490
WP12P142M 1U5	1.5	$\pm 20\%$	1M	0.090	1200	1100	390
WP12P142M 2U2	2.2	$\pm 20\%$	1M	0.110	1100	1000	360
WP12P142M 3U3	3.3	$\pm 20\%$	1M	0.170	800	870	300
WP12P142M 4U7	4.7	$\pm 20\%$	1M	0.265	700	600	250
WP20P103M 1U	1.0	$\pm 20\%$	1M	0.090	1200	1200	130
WP20P103M 1U5	1.5	$\pm 20\%$	1M	0.110	1100	1000	100
WP20P103M 2U2	2.2	$\pm 20\%$	1M	0.130	850	950	80
WP20P103M 3U3	3.3	$\pm 20\%$	1M	0.220	700	700	70
WP20P103M 4U7	4.7	$\pm 20\%$	1M	0.330	650	650	60
WP25P172M 1U	1.0	$\pm 20\%$	0.1M	0.043	2400	2200	220
WP25P172M 1U5	1.5	$\pm 20\%$	0.1M	0.045	2200	1750	170
WP25P172M 2U2	2.2	$\pm 20\%$	0.1M	0.065	1850	1600	150
WP25P172M 3U3	3.3	$\pm 20\%$	0.1M	0.120	1450	1200	140
WP25P172M 4U7	4.7	$\pm 20\%$	0.1M	0.180	1300	1000	120
WP25P172□ 6U8	6.8	$\pm 10\%, \pm 20\%$	0.1M	0.270	1050	770	90
WP25P172□ 10U	10.0	$\pm 10\%, \pm 20\%$	0.1M	0.350	900	700	70
WP25P172□ 15U	15.0	$\pm 10\%, \pm 20\%$	0.1M	0.570	700	530	20
WP25P172□ 22U	22.0	$\pm 10\%, \pm 20\%$	0.1M	0.690	550	470	13