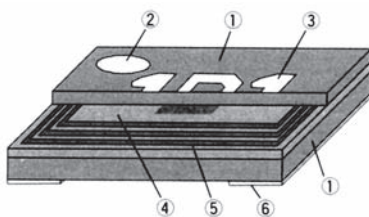
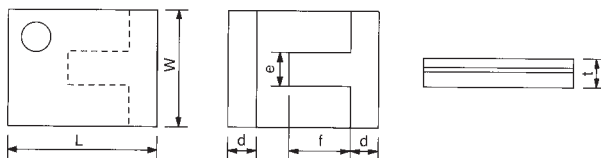
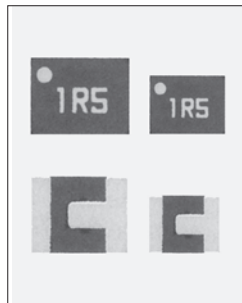


## FERRITE CORE PLANAR INDUCTOR PL



### STRUCTURE

- 1 Ferrite core
- 2 Direction mark
- 3 Marking
- 4 Resin filler
- 5 Coil pattern
- 6 Electrode



### IDENTIFICATION

PRODUCT CODE	BODY COLOR	MARKING
PL	Black	White (Alpha Numeric, 3 digits) + direction mark

All these products have Pb-free terminations and meet EU-RoHS and China-RoHS requirements

### TYPE DESIGNATION (HOW TO ORDER)

PL	3225	T	TE	1R1	M
PRODUCT CODE	STYLE	TERMINATION SURFACE MATERIAL	TAPING*	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE
	2.5 x 2.0 mm (1008 inch) 3.2 x 2.5 mm (1210 inch)	T: Sn	TE: 4000 pcs/reel BK: Bulk	3 digits code (Unit: $\mu\text{H}$ )	M: ( $\pm 20\%$ )

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

### FEATURES

- Extremely low-profile power choke coil ( $0.5 \pm 0.1\text{mm}$  max. height)
- Inductor in small dimensions (standard chip size 1008 and 1210)
- High current type
- Eddy current loss is suppressed by proprietary structural design
- Mounting area can be reduced due to fillet-less mounting
- Excellent mountability, solderability and high reliability
- Ideal for use in DC-DC converter and power modules for small electronic equipment (i.e. mobile phones, DSC, DVC, PDA etc.)
- Operating temperature range:  $-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$
- Suitable for reflow soldering

### DIMENSIONS (mm)

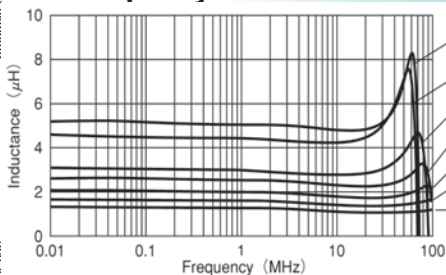
SIZE	PRODUCT CODE	L	W	t	d	e	f
<b>NEW</b> 1008	PL 2520	$2.5 \pm 0.2$	$2.0 \pm 0.2$	0.5 max.	$0.6 \pm 0.2$	$0.7 \pm 0.2$	$0.6 \pm 0.2$
1210	PL 3225	$3.2 \pm 0.2$	$2.5 \pm 0.2$	$0.5 \pm 0.1$		$0.8 \pm 0.2$	$1.2 \pm 0.2$

### TYPICAL FREQUENCY CHARACTERISTICS OF PL 3225

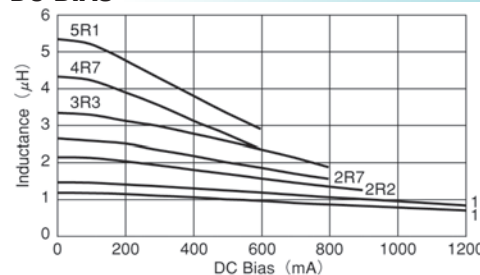
Test equipment: Agilent 4294A impedance analyzer

(Typical characteristics of PL 2520 on request)

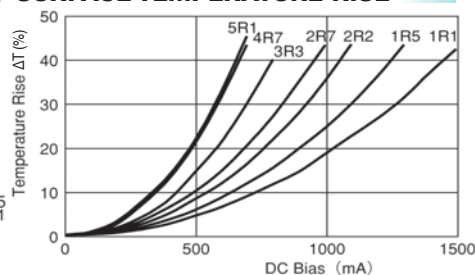
#### L vs. Frequency



#### DC BIAS



#### SURFACE TEMPERATURE RISE



### RATING

SIZE	TYPE	MARKING	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT* (MAX.)	MEASURING FREQUENCY
<b>NEW</b> 1008	PL 2520 T TE R33 M	R33	0.33 $\mu\text{H}$	M ( $\pm 20\%$ )	260 MHz	0.06 $\Omega$	1100 mA	1 Mhz
	PL 2520 T TE R56 M	R56	0.56 $\mu\text{H}$		200 MHz	0.10 $\Omega$	790 mA	
	PL 2520 T TE R62 M	R62	0.62 $\mu\text{H}$		200 MHz	0.11 $\Omega$	770 mA	
	PL 2520 T TE 1R0 M	1R0	1.0 $\mu\text{H}$		120 MHz	0.18 $\Omega$	610 mA	
	PL 2520 T TE 1R5 M	1R5	1.5 $\mu\text{H}$		110 MHz	0.31 $\Omega$	510 mA	
	PL 2520 T TE 2R2 M	2R2	2.2 $\mu\text{H}$		100 MHz	0.59 $\Omega$	380 mA	
	PL 2520 T TE 3R3 M	3R3	3.3 $\mu\text{H}$		80 MHz	0.92 $\Omega$	330 mA	
	PL 2520 T TE 4R3 M	4R3	4.3 $\mu\text{H}$		70 MHz	1.24 $\Omega$	240 mA	
1210	PL 2520 T TE 4R7 M	4R7	4.7 $\mu\text{H}$	60 MHz	1.26 $\Omega$	230 mA		
	PL 3225 T TE 1R1 M	1R1	1.1 $\mu\text{H}$	130 MHz	0.11 $\Omega$	800 mA		
	PL 3225 T TE 1R5 M	1R5	1.5 $\mu\text{H}$	120 MHz	0.15 $\Omega$	600 mA		
	PL 3225 T TE 2R2 M	2R2	2.2 $\mu\text{H}$	90 MHz	0.23 $\Omega$	500 mA		
	PL 3225 T TE 2R7 M	2R7	2.7 $\mu\text{H}$	70 MHz	0.28 $\Omega$	400 mA		
	PL 3225 T TE 3R3 M	3R3	3.3 $\mu\text{H}$	60 MHz	0.50 $\Omega$	350 mA		
	PL 3225 T TE 4R7 M	4R7	4.7 $\mu\text{H}$	50 MHz	0.60 $\Omega$	300 mA		
	PL 3225 T TE 5R1 M	5R1	5.1 $\mu\text{H}$	50 MHz	0.60 $\Omega$	300 mA		

\* The mentioned allowable DC current values are based on the rate of inductance change 30% decrease from the initial value at  $+25^{\circ}\text{C}$ .  
TE: 4.000 pcs/reel, 4mm pitch plastic embossed tape

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the inductors in such applications may cause loss of human life or serious damage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order/use.

INDUCTORS