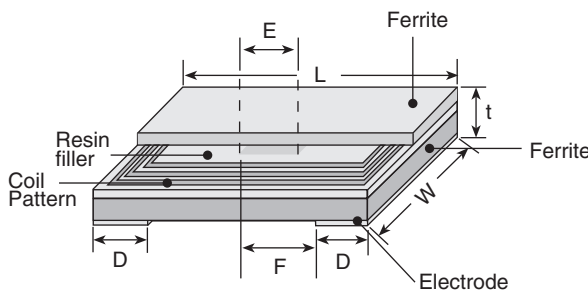


features

- Extremely low-profile power choke coil which height is 0.5mm Max. in 2.5 x 2.0mm size, 0.5 ± 0.1 mm in 3.2 x 2.5mm size. High current type with maximum allowable current 800mA
- Eddy current loss is suppressed by a proprietary structural design
- Marking: Black body color with marking
- Products with lead-free terminations meet EU RoHS and China RoHS requirements



dimensions and construction



Size (Inch Size Code)	Dimensions inches (mm)					
	L	W	t	D	E	F
PL2520 (1008)	.098±.008 (2.5±0.2)	.079±.008 (2.0±0.2)	.020 Max. (0.5 Max.)	.024±.008 (0.6±0.2)	.028±.008 (0.7±0.2)	.024±.008 (0.6±0.2)
PL3225 (1210)	.126±.008 (3.2±0.2)	.098±.008 (2.5±0.2)	.020±.004 (0.5±0.1)	.024±.008 (0.6±0.2)	.031±.008 (0.8±0.2)	.047±.008 (1.2±0.2)

ordering information

New Part #	PL	3225	T	TE	1R1	M
Type			Termination Material	Packaging	Nominal Inductance	Tolerance
		2.5 x 2.0mm 3.2 x 2.5mm	T: Sn	TE: 4mm embossed pitch plastic (4,000 pieces/reel)	3 digits (Unit: μ H)	M: $\pm 20\%$

applications and ratings

Part Designation	Marking	Inductance (μ H)	Inductance Tolerance	DC Resistance Maximum (Ω)	Allowable DC Current Maximum (mAmps)**	Self Resonant Frequency Minimum (MHz)	Measured Frequency (Hz)	Operating Temperature Range
PL2520TTER33M	R33	0.33	M: $\pm 20\%$	0.06	1100	260	1 MHz	-40°C to +125°C
PL2520TTER56M	R56	0.56		0.10	790	200		
PL2520TTER62M	R62	0.62		0.11	770	200		
PL2520TTE1R0M	1R0	1.0		0.18	610	120		
PL2520TTE1R5M	1R5	1.5		0.31	510	110		
PL2520TTE2R2M	2R2	2.2		0.59	380	100		
PL2520TTE3R3M	3R3	3.3		0.92	330	80		
PL2520TTE4R3M	4R3	4.3		1.24	240	70		
PL2520TTE4R7M	4R7	4.7		1.26	230	60		

** Allowable DC current is the values given based on the rate of inductance change 30% decrease from the initial value at 25%

For further information on packaging, please refer to Appendix A.

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

1/08/09

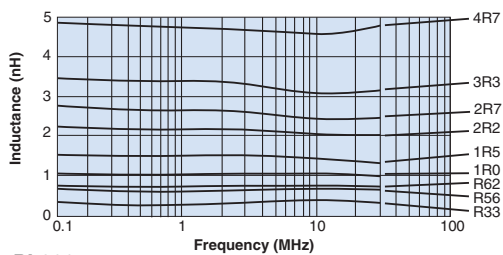
applications and ratings (continued)

Part Designation	Marking	Inductance (μH)	Inductance Tolerance	DC Resistance Maximum (Ω)	Allowable DC Current Maximum (mAmps)	Self Resonant Frequency Minimum (MHz)	Measured Frequency (Hz)	Operating Temperature Range
PL3225TTE1R1M	1R1	1.1	M: ±20%	0.11	800	130	1 MHz	-40°C to +125°C
PL3225TTE1R5M	1R5	1.5		0.15	600	120		
PL3225TTE2R2M	2R2	2.2		0.23	500	90		
PL3225TTE2R7M	2R7	2.7		0.28	400	70		
PL3225TTE3R3M	3R3	3.3		0.50	350	60		
PL3225TTE4R7M	4R7	4.7		0.60	300	50		
PL3225TTE5R1M	5R1	5.1		0.60	300	50		

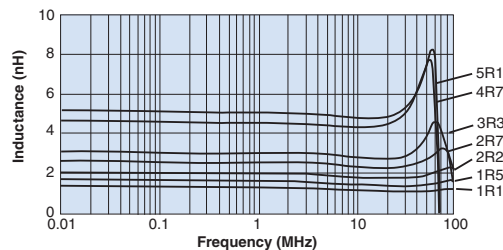
environmental applications

L - Frequency Characteristics

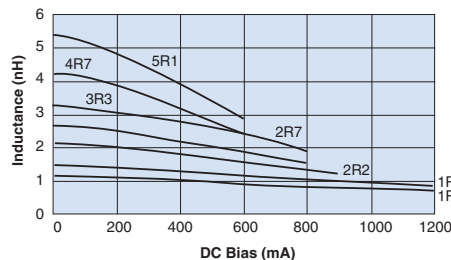
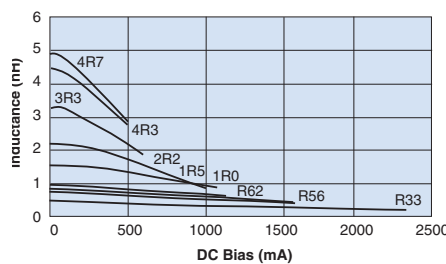
PL2520



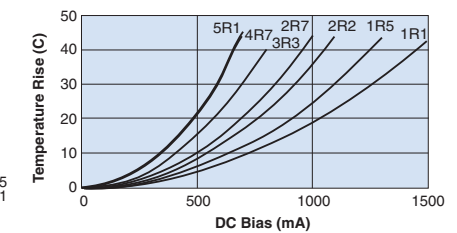
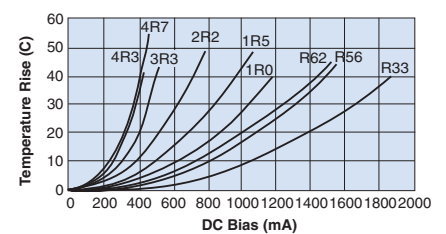
PL3225



DC Bias Characteristics



Surface Temperature Rise



Performance Characteristics

Parameter	Requirements Maximum Δ L		Test Method
	Limit	Typical	
Resistance to Soldering Heat	Without distinct damage in appearance and construction Δ L/L: ±10%	Δ L/L: ±2.5%	260°C ± 5°C, 10s ± 1s
Rapid Change of Temperature	Without distinct damage in appearance and construction Δ L/L: ±10%	Δ L/L: ±1.5%	-40°C (30min.)/ +125°C (30min.) 100 cycles
Low Temperature Exposure	Without distinct damage in appearance and construction Δ L/L: ±10%	Δ L/L: ±1.0%	-40°C ± 3°C, 1000h
High Temperature Exposure	Without distinct damage in appearance and construction Δ L/L: ±10%	Δ L/L: ±1.5%	125°C ± 2°C, 1000h
Moisture Exposure	Without distinct damage in appearance and construction Δ L/L: ±10%	Δ L/L: ±1.5%	40°C ± 2°C, 90%-95%RH, 1000h
Resistance to Solvent	Without distinct damage in appearance and construction Δ L/L: ±10%	Δ L/L: ±0.5%	Accordance with MIL-STD 202G Method 215