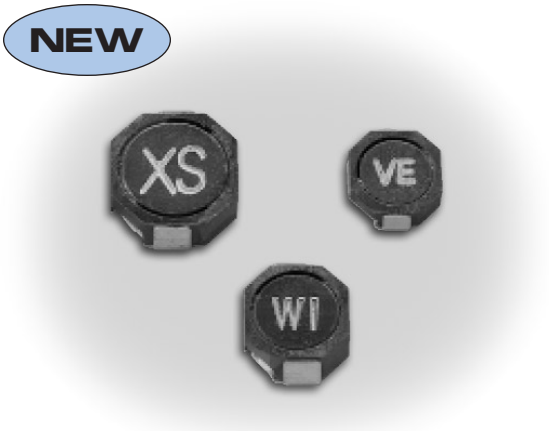
NEW

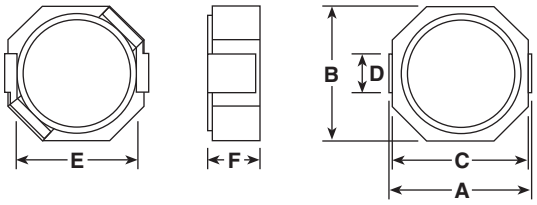


features

- Small and thin type
- Low DCR and large rated current
- Low noise by magnetically shielded construction
- Suitable for reflow soldering
- Marking: Black body color with marking
- Products with lead-free terminations meet RoHS requirements

RoHS COMPLIANT

dimensions and construction



Size	Dimensions inches (mm)					
	A	B	C	D	E	F
5018	.213±.012 (5.4±0.3)	.197±.008 (5.0±0.2)	.197±.008 (5.0±0.2)	.059±.008 (1.5±0.2)	.169±.012 (4.3±0.3)	.071±.008 (1.8±0.2)
5728	.240±.012 (6.1±0.3)	.224±.008 (5.7±0.2)	.224±.008 (5.7±0.2)	.079±.008 (2.0±0.2)	.193±.012 (4.9±0.3)	.110±.008 (2.8±0.2)
6926	.287±.012 (7.3±0.3)	.272±.008 (6.9±0.2)	.272±.008 (6.9±0.2)	.079±.008 (2.0±0.2)	.240±.012 (6.1±0.3)	.102±.008 (2.6±0.2)

ordering information

New Part #

LPS	5018	C	TE	2R2	M
Type	Size	Termination Material	Packaging	Nominal Inductance	Tolerance
	5018 5728 6926	C: SnCu	TE: Taping (1,000 pieces/reel)	3 digits (Unit: µH)	M: ±20%

applications and ratings

Part Designation	Nominal Inductance (µH) ±20%*	Inductance Tolerance	DC Resistance Maximum (mΩ)**	Allowable DC Current Maximum (Amps)***	Self Resonant Frequency Typ. (MHz)	Operating Temperature Range
LPS5018CTE2R2M	2.2	M: ±20%	59	1.63	125	-20°C to +85°C
LPS5018CTE3R3M	3.3		73	1.34	90	
LPS5018CTE4R7M	4.7		87	1.14	70	
LPS5018CTE6R8M	6.8		105	0.95	60	
LPS5018CTE100M	10		150	0.76	45	
LPS5018CTE150M	15		210	0.63	35	
LPS5018CTE220M	22		275	0.56	30	
LPS5018CTE330M	33		455	0.44	20	
LPS5018CTE470M	47		730	0.35	14	
LPS5728CTE2R2M	2.2	M: ±20%	18	2.60	70	
LPS5728CTE3R3M	3.3		24	2.40	60	
LPS5728CTE4R7M	4.7		38	1.90	45	
LPS5728CTE6R8M	6.8		51	1.60	35	
LPS5728CTE100M	10		65	1.30	25	

* Condition: 100kHz 0.1V 25°C
** Condition: 25°C
*** Allowable DC Current is a DC bias current value which causes initial inductance to decrease by 30%

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

2/27/06

applications and ratings (continued)

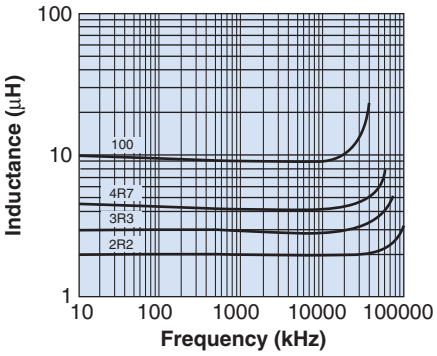
Part Designation	Nominal Inductance (µH) ±20%*	Inductance Tolerance	DC Resistance Maximum (mΩ)**	Allowable DC Current Maximum (Amps)***	Self Resonant Frequency Typ. (MHz)	Operating Temperature Range
LPS5728CTE150M	15	M: ±20%	103	1.10	20	-20°C to +85°C
LPS5728CTE220M	22		122	0.90	15	
LPS5728CTE330M	33		189	0.75	10	
LPS5728CTE470M	47		250	0.62	9	
LPS6926CTE2R2M	2.2	M: ±20%	19	4.30	70	
LPS6926CTE3R3M	3.3		26	3.50	50	
LPS6926CTE4R7M	4.7		35	2.90	40	
LPS6926CTE6R8M	6.8		52	2.40	35	
LPS6926CTE100M	10		65	2.00	25	
LPS6926CTE150M	15		91	1.60	15	
LPS6926CTE220M	22		143	1.30	10	
LPS6926CTE330M	33		208	1.00	8	
LPS6926CTE470M	47		286	0.84	7	

* Condition: 100kHz 0.1V 25°C
** Condition: 25°C
*** Allowable DC Current is a DC bias current value which causes initial inductance to decrease by 30%

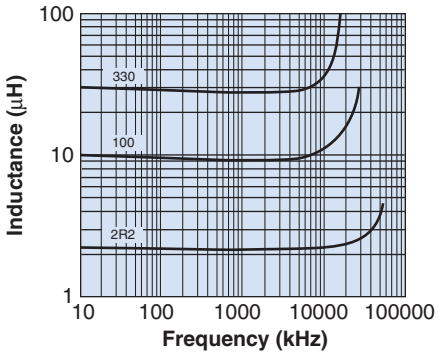
environmental applications

L - Frequency Characteristics

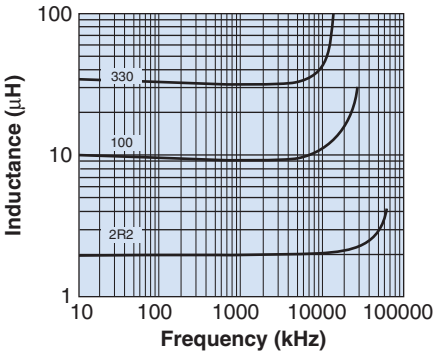
LPS5018



LPS5728

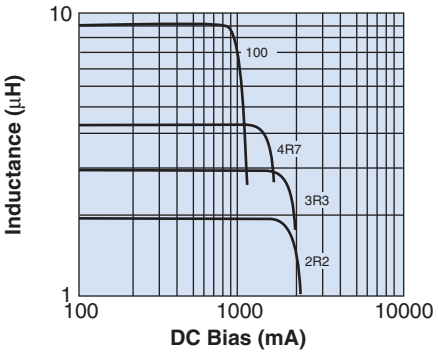


LPS6926



DC Bias Characteristics

LPS5018



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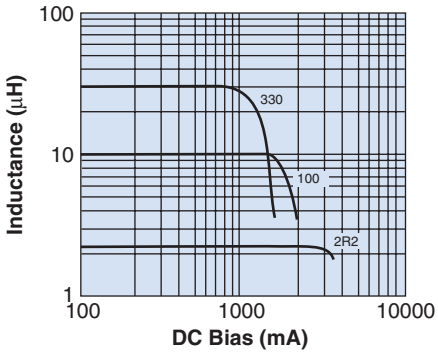
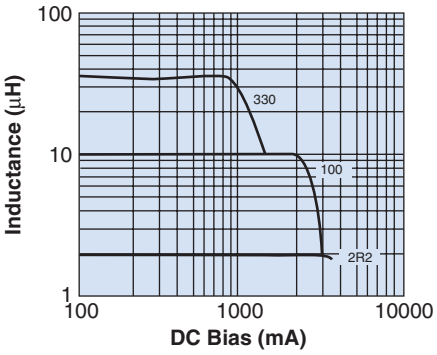


LPS6926



environmental applications (continued)

Performance Characteristics

Parameter	Maximum Δ L	Test Method
Resistance to Soldering Heat	No significant abnormality in appearance	280°C ± 5°C, 10s, Only terminal shall be immersed
Thermal Shock	No significant abnormality in appearance	-20°C (0.5h)/ +85°C (0.5h) 100 cycles
Low Temperature Exposure	No significant abnormality in appearance	-20°C ± 2°C, 1000h
Moisture Exposure	No significant abnormality in appearance	60°C ± 2°C, 90%~95%RH, 1000h
Heat Resistance Load Life	No significant abnormality in appearance	85°C, 1000h, Rated current x 100%
Resistance to Solvent	No damage and marking shall remain legible	JIS C0052 Accordance with JIS C0052