



Characteristics

- Magnetically shielded version which results in a low leakage field
- Working frequency up to 10 MHz
- Operating temperature: $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$

Applications

- EMI-filter
- Perfectly suitable for switching regulators e.g. National Semiconductor, Linear Technology, Texas Instruments, Maxim, Semtech, ON Semiconductor, Cologne Chip, STMicroelectronics, Maxim, MPS, Diodes, Analogic Tech and Exar
- Perfectly suitable for switching regulators with extremely high efficiency

QR-Code

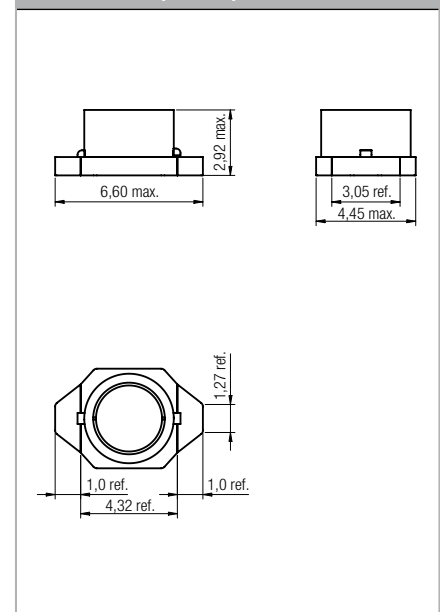


Electrical properties

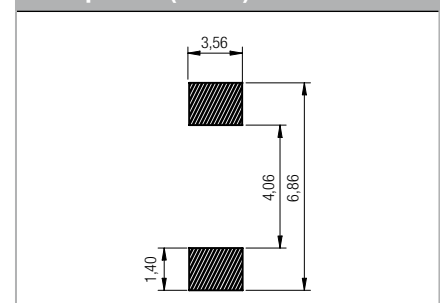
Order Code	L (µH)	Tolerance (%)	I_R (A)	I_{sat} (A)	$R_{DC\ typ.}$ (Ω)	$R_{DC\ max.}$ (Ω)	Qty.
744 510 1	1.0	±20	3.0	1.62	0.014	0.040	500
744 510 15	1.5		2.8	1.13	0.018	0.045	
744 510 22	2.2		1.8	1.08	0.021	0.050	
744 510 33	3.3		1.6	0.77	0.025	0.055	
744 510 39	3.9		1.5	0.77	0.040	0.057	
744 510 47	4.7		1.4	0.72	0.045	0.060	
744 510 68	6.8		1.2	0.50	0.055	0.065	
744 511 0	10		1.0	0.45	0.056	0.075	
744 511 15	15		0.8	0.27	0.075	0.09	
744 511 22	22		0.7	0.16	0.090	0.11	
744 511 33	33		0.6	0.15	0.114	0.19	
744 511 47	47		0.5	0.14	0.160	0.23	
744 511 68	68		0.4	0.12	0.221	0.29	
744 512 0	100		0.3	0.09	0.393	0.48	
744 512 15	150		0.26	0.05	0.410	0.59	
744 512 22	220		0.22	0.08	0.580	0.77	
744 512 33	330		0.20	0.02	1.000	1.40	
744 512 47	470	0.19	0.02	1.700	1.80		

I_R referring to 40 K self-heating above ambient temperature
 I_{sat} referring to inductance loss of 10% typ.

Dimensions (in mm)



Land pattern (in mm)



WE-PD3

SMD Shielded Power Inductor

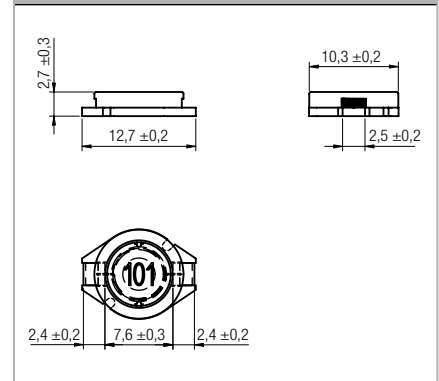
Size M / Size L

Electrical properties: Size M

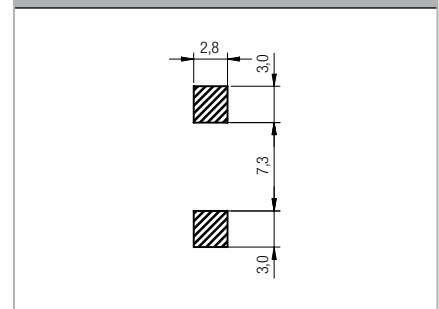
Order Code	L (μH)	Tolerance (%)	I_R (A)	I_{sat} (A)	$R_{\text{DC typ.}}$ (Ω)	$R_{\text{DC max.}}$ (Ω)	Qty.
744 530 1	1.5	±20	3.00	6.3	0.029	0.038	1000
744 530 2	2.2		2.76	6.0	0.037	0.045	
744 530 31	3.3		2.20	5.4	0.052	0.062	
744 530 3	3.9		2.10	4.2	0.058	0.070	
744 530 4	4.7		1.90	3.6	0.065	0.078	
744 530 6	6.8		1.60	3.3	0.064	0.085	
744 530 10	10		1.24	2.9	0.117	0.145	
744 531 12	12		1.10	2.7	0.160	0.185	
744 531 15	15		1.00	2.3	0.170	0.200	
744 531 22	22		0.80	1.9	0.248	0.300	
744 531 33	33		0.70	1.4	0.371	0.450	
744 531 47	47		0.60	1.3	0.481	0.650	
744 531 56	56		0.52	1.2	0.552	0.680	
744 531 68	68		0.48	1.1	0.620	0.800	
744 531 82	82		0.42	0.9	1.030	1.200	
744 532 0	100		0.40	0.7	1.164	1.400	

I_R referring to 40 K self-heating above ambient temperature
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Dimensions (in mm)



Land pattern (in mm)

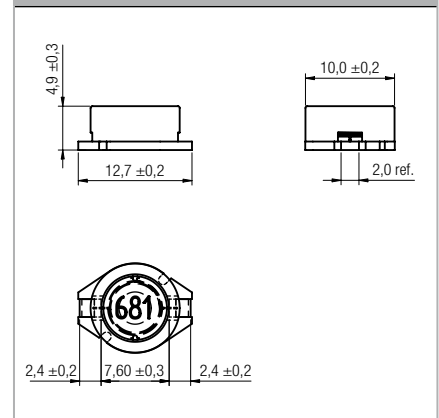


Electrical properties: Size L

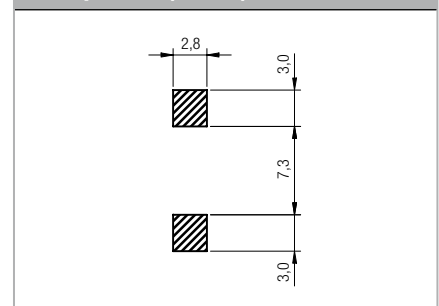
Order Code	L (μH)	Tolerance (%)	I_R (A)	I_{sat} (A)	$R_{\text{DC typ.}}$ (Ω)	$R_{\text{DC max.}}$ (Ω)	Qty.
744 540 2	2.2	±20	3.8	6.8	0.023	0.027	600
744 540 3	3.0	±20	2.9	5.9	0.026	0.030	
744 540 4	4.7	±20	2.7	4.7	0.034	0.040	
744 540 68	6.8	±20	2.2	4.1	0.041	0.055	
744 540 10	10	±20	2.0	3.2	0.048	0.065	
744 541 15	15	±20	1.7	3.0	0.064	0.085	
744 541 22	22	±15	1.4	2.3	0.076	0.100	
744 541 33	33	±15	1.2	1.8	0.127	0.160	
744 541 47	47	±15	1.0	1.4	0.158	0.190	
744 541 68	68	±15	0.82	1.35	0.285	0.340	
744 542 0	100	±10	0.68	1.10	0.373	0.420	
744 542 15	150	±10	0.55	0.80	0.456	0.520	
744 542 20	220	±10	0.45	0.70	0.683	0.800	
744 542 33	330	±10	0.35	0.60	1.044	1.200	
744 542 39	390	±10	0.33	0.55	1.175	1.400	
744 542 47	470	±10	0.30	0.50	1.350	1.600	
744 542 68	680	±10	0.26	0.40	1.940	2.300	
744 543 0	1000	±10	0.22	0.35	2.750	3.200	

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 I_{sat} referring to inductance loss of 10% typ.

Dimensions (in mm)



Land pattern (in mm)

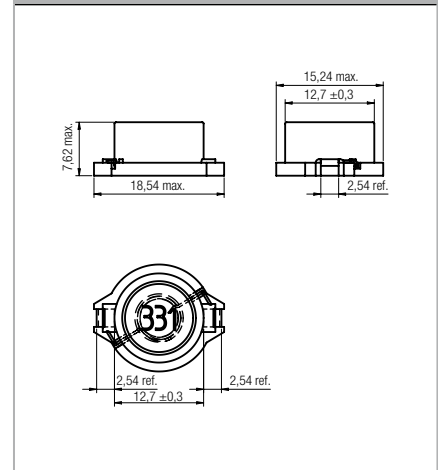


Electrical properties

Order Code	L (μH)	Tolerance (%)	I_R (A)	I_{sat} (A)	$R_{\text{DC typ.}}$ (Ω)	$R_{\text{DC max.}}$ (Ω)	Qty.
744 590 10	10	±20	3.9	8	0.023	0.040	300
744 591 15	15		3.5	7	0.030	0.048	
744 591 22	22		3.4	6	0.048	0.059	
744 591 33	33		2.9	5	0.071	0.075	
744 591 47	47		2.8	4	0.085	0.097	
744 591 68	68		2.2	3	0.105	0.138	
744 592 0	100		1.7	2.4	0.151	0.207	
744 592 15	150		1.3	2.1	0.209	0.293	
744 592 22	220		1.2	1.9	0.311	0.470	
744 592 33	330		0.9	1.1	0.457	0.780	
744 592 47	470		0.8	1.1	0.661	1.080	
744 592 68	680		0.7	0.96	1.059	1.400	
744 593 0	1000		0.6	0.80	1.427	2.010	

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 I_{sat} referring to inductance loss of 10% typ.

Dimensions (in mm)



Land pattern (in mm)

