



SHIELDED SMD INDUCTOR/TRANSFORMER DR359-1 SERIES

Features

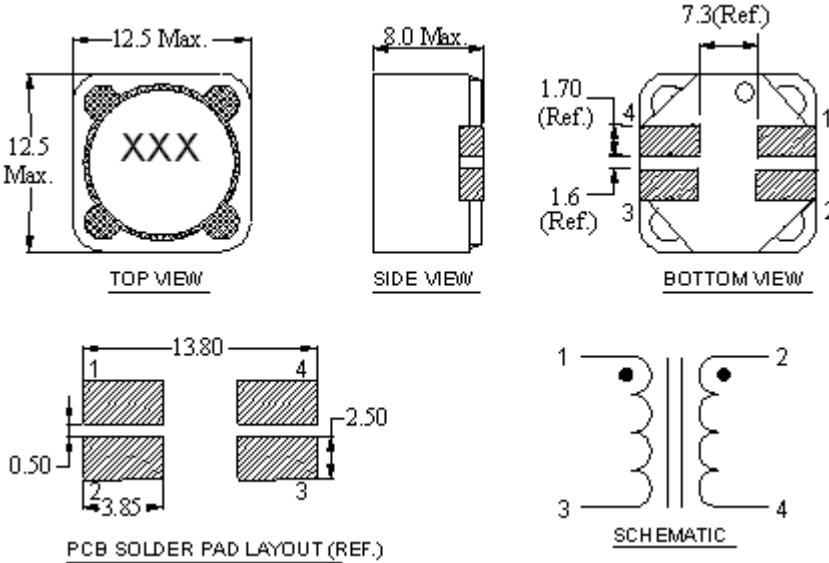
- Low Profile Surface Mount Design
- Flat Top for Pick and Place
- Inductance Range from 0.47 μ H to 1000.0 μ H (Parallel Ratings)
- Materials meet UL94V-0
- Operating Temp. -40°C to +125°C
- Tinned Leads with Leaded Solder is Available (note 8)



ELECTRICAL SPECIFICATIONS AT 25°C

Part No.	Rated Inductance (μ H)	Parallel Ratings				Series Ratings			
		Inductance (μ H) \pm 20%	DCR (Ω) Typ.	I _{rms} (A) Max.	I _{sat} (A) Peak	Inductance (μ H) \pm 25%	DCR (Ω) Typ.	I _{rms} (A) Max.	I _{sat} (A) Peak
DR359-1-471	0.47	0.419 \pm 30%	0.00195	17.9	56.0	1.676 \pm 30%	0.0078	8.94	28.0
DR359-1-102	1.0	0.821 \pm 30%	0.00261	15.5	40.0	3.284 \pm 30%	0.0104	7.74	20.0
DR359-1-152	1.5	1.357 \pm 30%	0.00341	13.5	31.1	5.428 \pm 30%	0.0137	6.77	15.6
DR359-1-222	2.2	2.027 \pm 30%	0.00373	12.5	25.5	8.108 \pm 30%	0.0161	6.23	12.7
DR359-1-332	3.3	2.831 \pm 30%	0.00567	10.4	21.5	11.32 \pm 30%	0.0229	5.23	10.8
DR359-1-472	4.7	4.841 \pm 30%	0.00971	8.25	16.5	19.36 \pm 30%	0.0367	4.13	8.24
DR359-1-682	6.8	7.387	0.0116	7.34	13.3	29.55	0.0465	3.67	6.67
DR359-1-822	8.2	8.861	0.0157	6.32	12.2	35.44	0.0627	3.16	6.09
DR359-1-103	10.0	10.47	0.0172	6.04	11.2	41.88	0.0686	3.02	5.60
DR359-1-153	15.0	14.09	0.0247	5.03	9.66	56.36	0.0990	2.51	4.83
DR359-1-223	22.0	22.93	0.0391	4.00	7.57	91.72	0.1570	2.00	3.78
DR359-1-273	27.0	27.00	0.0650	3.30	6.50	110.0	0.2400	1.65	3.20
DR359-1-333	33.0	33.92	0.0600	3.23	6.22	135.7	0.2410	1.61	3.11
DR359-1-473	47.0	47.05	0.0719	2.95	5.28	188.2	0.2880	1.47	2.64
DR359-1-683	68.0	66.48	0.1050	2.44	4.44	265.9	0.4210	1.22	2.22
DR359-1-823	82.0	79.75	0.1430	2.09	4.06	319.0	0.5730	1.04	2.03
DR359-1-104	100.0	99.31	0.1630	1.96	3.64	397.2	0.6530	0.980	1.82
DR359-1-154	150.0	144.9	0.2470	1.59	3.01	579.6	0.9890	0.796	1.51
DR359-1-224	220.0	221.5	0.3760	1.29	2.43	886.0	1.500	0.645	1.22
DR359-1-334	330.0	323.6	0.5740	1.04	2.01	1294.0	2.300	0.522	1.01
DR359-1-474	470.0	467.1	0.8610	0.85	1.68	1868.0	3.400	0.427	0.838
DR359-1-684	680.0	676.7	1.0800	0.76	1.39	2707.0	4.320	0.380	0.697
DR359-1-824	820.0	818.1	1.4700	0.65	1.27	3272.0	5.880	0.325	0.633
DR359-1-105	1000.0	1005.0	1.6600	0.61	1.14	4020.0	6.640	0.307	0.571

MECHANICAL OUTLINES



Notes

1. All dimensions are shown in millimeter "mm"
2. General tolerance \pm 0.2mm, unless other specified
3. Inductance Test: 100kHz, 0.25VRms, Parallel : (1,2-3,4), Series: (1-4) tie (2-3)
4. I_{rms} for an approximate 40°C temperature rise
5. I_{sat} for an approximate 30% drop maximum of the nominal value
6. Turns Ratio (1-3) : (2-4) = 1 : 1
7. Tape and reel quantity, 350 pcs/reel
8. For non-RoHS parts replace DR prefix with 42- (e.g. DR359-1 becomes 42-359-1)
9. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020D