

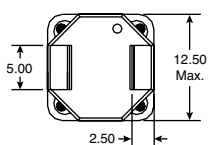
COILTRONICS® Automotive Rated Shielded Power Inductors



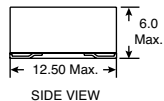
RoHS Compliant This product is RoHS compliant.

DIMENSIONS: mm

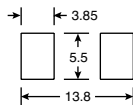
A



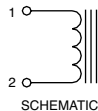
BOTTOM VIEW



SIDE VIEW

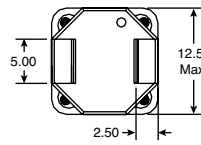


RECOMMENDED PCB LAYOUT

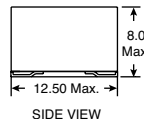


SCHEMATIC

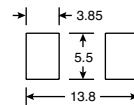
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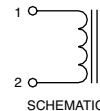
BOTTOM VIEW



SIDE VIEW



RECOMMENDED PCB LAYOUT



SCHEMATIC

Features:

- 165°C maximum total temperature operation
- Five sizes of Automotive grade shielded drum core inductors
- Inductance range from 0.28uH to 1000uH
- Current range up to 56 Amps
- Mechanical secure mounting for high shock and vibration environments
- Good thermal dispersion with thermal conductive epoxy
- Customized dual winding versions available upon request for SEPIC or Flyback configurations

Applications:

- Automotive Electronics (under the hood, interior/exterior)
- Telematics
- DC-DC converters
- Buck, boost, forward, and resonant converters
- Noise filtering and filter chokes

Environmental Data:

- Storage temperature range: -40°C to +165°C
- Operating ambient temperature range: -40°C to +165°C
- Solder reflow temperature: +260°C max. for 10 seconds max.
- Complies with AEC-Q200 standard

DRA125 SERIES

MOUSER STOCK NO.	Coiltronics Part No.	Fig.	Rated Inductance (µH)	Open Circuit Inductance (µH)	Irms (A)	Isat (A)	DCR (Ω)	Price Each				Reel Qty.	Price Each
								1	10	50	100		
704-DRA125-R47-R	DRA125-R47-R	A	0.47	0.453	18.47	33.20	0.0016					600	
704-DRA125-1R0-R	DRA125-1R0-R	A	1.0	0.854	15.94	23.71	0.0021					600	
704-DRA125-1R5-R	DRA125-1R5-R	A	1.5	1.41	12.89	18.44	0.0033					600	
704-DRA125-2R2-R	DRA125-2R2-R	A	2.2	2.12	10.61	15.09	0.0048					600	
704-DRA125-3R3-R	DRA125-3R3-R	A	3.3	2.89	9.69	12.77	0.0058					600	
704-DRA125-4R7-R	DRA125-4R7-R	A	4.7	4.90	7.67	9.76	0.0092					600	
704-DRA125-6R8-R	DRA125-6R8-R	A	6.8	6.23	6.81	8.74	0.012					600	
704-DRA125-8R2-R	DRA125-8R2-R	A	8.2	7.49	6.41	7.9	0.013					600	
704-DRA125-100-R	DRA125-100-R	A	10.0	9.22	5.57	7.22	0.017					600	
704-DRA125-150-R	DRA125-150-R	A	15.0	14.67	4.45	5.72	0.027					600	
704-DRA125-220-R	DRA125-220-R	A	22.0	20.65	3.95	4.74	0.035					600	
704-DRA125-330-R	DRA125-330-R	A	33.0	31.47	3.19	3.86	0.053					600	
704-DRA125-470-R	DRA125-470-R	A	47.0	47.83	2.59	3.13	0.081					600	
704-DRA125-680-R	DRA125-680-R	A	68.0	68.48	2.125	2.635	0.120					600	
704-DRA125-820-R	DRA125-820-R	A	82.0	80.86	2.005	2.406	0.135					600	
704-DRA125-101-R	DRA125-101-R	A	100	97.6	1.745	2.213	0.178					600	
704-DRA125-151-R	DRA125-151-R	A	150	150.0	1.409	1.785	0.273					600	
704-DRA125-221-R	DRA125-221-R	A	220	222.8	1.142	1.469	0.416					600	
704-DRA125-331-R	DRA125-331-R	A	330	325.1	0.998	1.194	0.543					600	
704-DRA125-471-R	DRA125-471-R	A	470	466.3	0.826	1.006	0.79					600	
704-DRA125-681-R	DRA125-681-R	A	680	683.3	0.673	0.834	1.20					600	
704-DRA125-821-R	DRA125-821-R	A	820	813.6	0.632	0.758	1.36					600	
704-DRA125-102-R	DRA125-102-R	A	1000	992.8	0.552	0.695	1.78					600	

DRA127 SERIES

MOUSER STOCK NO.	Coiltronics Part No.	Fig.	Rated Inductance (µH)	Open Circuit Inductance (µH)	Irms (A)	Isat (A)	DCR (Ω)	Price Each				Reel Qty.	Price Each
								1	25	100	175		
704-DRA127-R47-R	DRA127-R47-R	B	0.47	0.413	22.5	56	0.0012					350	
704-DRA127-1R0-R	DRA127-1R0-R	B	1.0	0.772	19.22	40	0.0017					350	
704-DRA127-1R5-R	DRA127-1R5-R	B	1.5	1.27	15.32	31.1	0.0027					350	
704-DRA127-2R2-R	DRA127-2R2-R	B	2.2	1.92	12.52	25.5	0.0040					350	
704-DRA127-3R3-R	DRA127-3R3-R	B	3.3	3.51	9.59	18.7	0.0068					350	
704-DRA127-4R7-R	DRA127-4R7-R	B	4.7	4.58	8.14	16.5	0.0094					350	
704-DRA127-6R8-R	DRA127-6R8-R	B	6.8	6.72	7.32	13.3	0.012					350	
704-DRA127-8R2-R	DRA127-8R2-R	B	8.2	8.33	6.33	12.2	0.016					350	
704-DRA127-100-R	DRA127-100-R	B	10.0	9.63	6.02	11.2	0.017					350	
704-DRA127-150-R	DRA127-150-R	B	15.0	14.90	4.83	9.03	0.027					350	
704-DRA127-220-R	DRA127-220-R	B	22.0	21.47	3.98	7.57	0.040					350	
704-DRA127-330-R	DRA127-330-R	B	33.0	32.01	3.22	6.22	0.060					350	
704-DRA127-470-R	DRA127-470-R	B	47.0	47.91	2.62	5.09	0.091					350	
704-DRA127-680-R	DRA127-680-R	B	68.0	68.22	2.333	4.18	0.115					350	
704-DRA127-820-R	DRA127-820-R	B	82.0	83.91	2.008	3.84	0.155					350	
704-DRA127-101-R	DRA127-101-R	B	100	100.8	1.888	3.46	0.175					350	
704-DRA127-151-R	DRA127-151-R	B	150	151.2	1.524	2.83	0.269					350	
704-DRA127-221-R	DRA127-221-R	B	220	219.8	1.253	2.35	0.398					350	
704-DRA127-331-R	DRA127-331-R	B	330	328.3	1.011	1.93	0.612					350	
704-DRA127-471-R	DRA127-471-R	B	470	474.5	0.827	1.62	0.91					350	
704-DRA127-681-R	DRA127-681-R	B	680	676.6	0.736	1.33	1.15					350	
704-DRA127-821-R	DRA127-821-R	B	820	824.6	0.637	1.22	1.54					350	
704-DRA127-102-R	DRA127-102-R	B	1000	998.7	0.598	1.1	1.75					350	