

COILTRONICS® Power Inductors



RoHS Compliant This product is RoHS compliant.

HIGH FREQUENCY, HIGH CURRENT MINIATURE POWER INDUCTORS

Features:

- Halogen Free
- Magnetically Shielded
- Handles high transient inrush current spikes

Specifications:

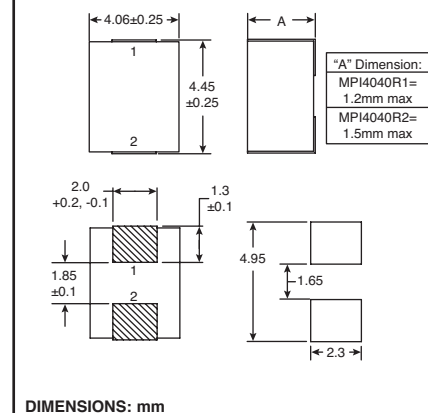
- Storage Temperature Range: -40°C to +125°C
- Operating Temperature Range: -40°C to +125°C
- Solder Reflow Temperature: J-STD-020D Compliant

Applications:

- Handheld/Mobile Devices
- MP3 Players
- GPS/PDAs
- Notebook/Netbook



MOUSER STOCK NO.	Coiltronics Part No.	OCL \pm 15% (μ H)	I_{rms}^2 (Amps)	I_{sat}^3 (Amps)	(m Ω) @ 20°C \pm 15%	K-factor ⁴	Price Each			
							1	50	100	500
704-MPI4040R1-R10-R	MPI4040R1-R10-R	0.09	7.4	32	8.5	2372	1.20	.92	.84	.76
704-MPI4040R1-R15-R	MPI4040R1-R15-R	0.15	6.5	26	11	1694	1.27	.98	.89	.81
704-MPI4040R1-R22-R	MPI4040R1-R22-R	0.23	5.1	21	18	1318	1.27	.98	.89	.81
704-MPI4040R1-R33-R	MPI4040R1-R33-R	0.33	4.08	17	28	1190	1.20	.92	.84	.76
704-MPI4040R1-R47-R	MPI4040R1-R47-R	0.47	3.75	11	35	912	1.27	.98	.89	.81
704-MPI4040R1-R68-R	MPI4040R1-R68-R	0.68	3.1	9	51	790	1.20	.92	.84	.76
704-MPI4040R2-R47-R	MPI4040R2-R47-R	0.47	4.3	13	28	912	1.20	.92	.84	.76
704-MPI4040R2-1R0-R	MPI4040R2-1R0-R	1	3.8	2.25	38	760	1.20	.92	.84	.76
704-MPI4040R2-1R5-R	MPI4040R2-1R5-R	1.5	2.75	1.8	60	600	1.20	.92	.84	.76
704-MPI4040R3-1R5-R	MPI4040R3-1R5-R	1.5	3.8	8.2	36	600	1.54	1.18	1.08	.974
704-MPI4040R2-2R2-R	MPI4040R2-2R2-R	2.2	2.3	1.5	82	506	1.20	.92	.84	.76
704-MPI4040R3-2R2-R	MPI4040R3-2R2-R	2.2	3.4	7.9	48	506	1.54	1.18	1.08	.974
704-MPI4040R2-3R3-R	MPI4040R2-3R3-R	3.3	1.96	1.25	113	430	1.27	.98	.89	.81
704-MPI4040R3-3R3-R	MPI4040R3-3R3-R	3.3	3	6.6	60	430	1.54	1.18	1.08	.974
704-MPI4040R2-4R7-R	MPI4040R2-4R7-R	4.7	1.6	1.1	175	368	1.20	.92	.84	.76
704-MPI4040R3-4R7-R	MPI4040R3-4R7-R	4.7	2.3	4.8	92	350	1.54	1.18	1.08	.974
704-MPI4040R3-6R8-R	MPI4040R3-6R8-R	6.8	2	4.5	140	290	1.54	1.18	1.08	.974
704-MPI4040R3-100-R	MPI4040R3-100-R	10	1.5	3.8	213	240	1.54	1.18	1.08	.974
704-MPI4040R3-220-R	MPI4040R3-220-R	22	1.1	2.2	408	160	1.54	1.18	1.08	.974



DUAL WINDING, SHIELDED POWER INDUCTOR/TRANSFORMERS

Features:

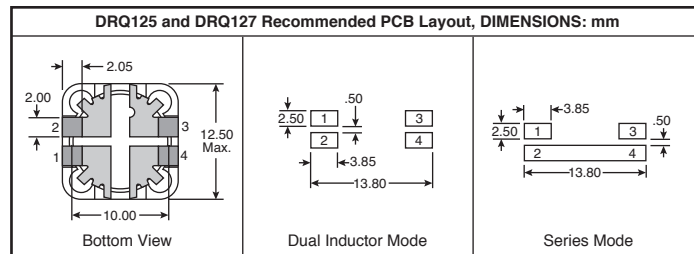
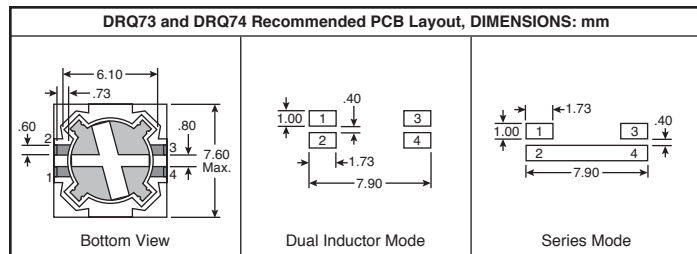
- 125°C maximum total temperature operation
- Dual winding inductors that can be used as either a single inductor or in a coupled inductor/transformer application
- Four sizes of shielded drum core inductors

Specifications:

- Storage Temperature Range: -40°C to +125°C
- Operating Temperature Range: -40°C to +125°C
- Solder Reflow Temperature: +260°C max. for 10 seconds max.

Applications:

- As a transformer: Sepic, flyback
- As an inductor: Buck, boost, coupled inductor
- DC-DC converters
- VRM inductor for CPU and DDR power supplies
- Input and output filter chokes



DRQ73 Series

MOUSER STOCK NO.	Coiltronics Part No.	Rated Inductance (μ H)	Parallel Ratings					Series Ratings					Price Each			
			OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	1	50	100	500
704-DRQ73-3R3-R	DRQ73-3R3-R	3.3	3.54	3.31	4.22	0.0259	6.73	14.16	1.66	2.11	0.1035	13.5	1.72	1.56	1.34	1.16
704-DRQ73-4R7-R	DRQ73-4R7-R	4.7	4.42	3.09	3.78	0.0297	7.52	17.69	1.55	1.89	0.1188	15.0	1.72	1.56	1.34	1.16
704-DRQ73-100-R	DRQ73-100-R	10	10.30	2.08	2.47	0.0656	11.5	41.2	1.04	1.24	0.2623	23.0	1.72	1.56	1.16	1.00
704-DRQ73-150-R	DRQ73-150-R	15	15.01	1.83	2.05	0.0844	13.9	60.04	0.916	1.03	0.339	27.8	1.72	1.56	1.34	1.16
704-DRQ73-220-R	DRQ73-220-R	22	22.65	1.62	1.67	0.107	17.0	90.6	0.811	0.83	0.429	34.0	1.72	1.56	1.34	1.16
704-DRQ73-330-R	DRQ73-330-R	33	34.41	1.31	1.35	0.166	21.0	137.6	0.653	0.68	0.665	42.0	1.72	1.56	1.34	1.16

DRQ74 Series

MOUSER STOCK NO.	Coiltronics Part No.	Rated Inductance (μ H)	Parallel Ratings					Series Ratings					Price Each			
			OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	1	50	100	500
704-DRQ74-6R8-R	DRQ74-6R8-R	6.8	7.34	2.60	3.67	0.0418	8.55	29.38	1.30	1.84	0.167	17.1	1.76	1.32	1.18	.99
704-DRQ74-8R2-R	DRQ74-8R2-R	8.2	8.57	2.53	3.40	0.0441	9.23	34.26	1.27	1.70	0.177	18.5	1.76	1.32	1.18	.99
704-DRQ74-100-R	DRQ74-100-R	10	9.88	2.41	3.17	0.0489	9.92	39.53	1.20	1.58	0.196	19.8	1.76	1.59	1.18	1.00
704-DRQ74-220-R	DRQ74-220-R	22	21.73	1.75	2.13	0.0925	14.7	86.92	0.874	1.07	0.371	29.4	1.76	1.32	1.18	.99
704-DRQ74-330-R	DRQ74-330-R	33	33.01	1.41	1.73	0.143	18.1	132.0	0.702	0.87	0.574	36.2	1.76	1.32	1.18	.99
704-DRQ74-470-R	DRQ74-470-R	47	49.64	1.15	1.41	0.216	22.2	198.6	0.573	0.71	0.865	44.4	1.76	1.32	1.18	.99

DRQ125 Series

MOUSER STOCK NO.	Coiltronics Part No.	Rated Inductance (μ H)	Parallel Ratings					Series Ratings					Price Each			
			OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	1	50	100	500
704-DRQ125-100-R	DRQ125-100-R	10	9.65	5.35	7.17	0.0189	14.6	38.62	2.67	3.59	0.0757	29.2	1.87	1.69	1.26	.789
704-DRQ125-150-R	DRQ125-150-R	15	15.35	4.27	5.69	0.0298	18.4	61.4	2.13	2.85	0.12	36.8	1.87	1.69	1.45	1.26
704-DRQ125-220-R	DRQ125-220-R	22	22.36	3.70	4.71	0.0396	22.2	89.44	1.84	2.36	0.159	44.4	1.87	1.69	1.45	1.26
704-DRQ125-330-R	DRQ125-330-R	33	33.74	3.28	3.84	0.0505	27.2	135.0	1.64	1.92	0.203	54.4	1.87	1.69	1.45	1.26
704-DRQ125-101-R	DRQ125-101-R	100	102.7	1.78	2.20	0.17	47.5	410.8	0.892	1.10	0.682	95.0	1.87	1.69	1.45	1.26

DRQ127 Series

MOUSER STOCK NO.	Coiltronics Part No.	Rated Inductance (μ H)	Parallel Ratings					Series Ratings					Price Each			
			OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	OCL (μ H) \pm 20%	I_{rms} (A)	I_{sat} (A)	DCR (Ω @ 20°C) (Typical)	Volt/ μ Sec (Typical)	1	50	100	500
704-DRQ127-4R7-R	DRQ127-4R7-R	4.7	4.84	8.25	16.5	0.00917	11.9	19.36	4.13	8.24	0.0367	23.8	2.02	1.70	1.36	.843
704-DRQ127-100-R	DRQ127-100-R	10	10.47	6.04	11.2	0.0172	17.5	41.88	3.02	5.60	0.0686	35.0	2.46	2.22	1.90	1.66
704-DRQ127-150-R	DRQ127-150-R	15	14.09	5.03	9.66	0.0247	20.3	56.36	2.51	4.83	0.099	40.6	2.46	2.22	1.90	1.66
704-DRQ127-220-R	DRQ127-220-R	22	22.93	4.00	7.57	0.0391	25.9	91.72	2.00	3.78	0.157	51.8	2.02	1.70	1.36	.843
704-DRQ127-470-R	DRQ127-470-R	47	47.05	2.95	5.28	0.0719	37.1	188.2	1.47	2.64	0.288	74.2	2.46	2.22	1.90	1.66
704-DRQ127-680-R	DRQ127-680-R	68	66.48	2.44	4.44	0.105	44.1	265.9	1.22	2.22	0.421	88.2	2.46	2.22	1.90	1.66
704-DRQ127-101-R	DRQ127-101-R	100	99.31	1.96	3.64	0.163	53.9	397.2	0.98	1.82	0.653	107.8	2.46	2.22	1.90	1.66