

# COILTRONICS® Power Inductors



RoHS Compliant This product is RoHS compliant.

## DUAL WINDING, SHIELDED POWER INDUCTOR/TRANSFORMERS

### Features:

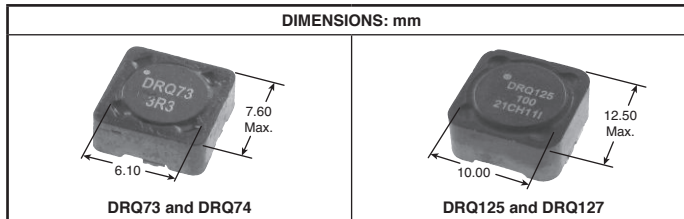
- 125°C maximum total temperature operation
- Dual winding inductors that can be used as either a single inductor or in a coupled inductor/transformer application
- Four sizes of shielded drum core inductors

### 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 (µH)	Parallel Ratings					Series Ratings					Price Each			
			OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (Typical)	OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (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	1.80	1.45	1.21	806
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	1.80	1.45	1.21	806
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	1.80	1.45	1.21	806
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	1.80	1.45	1.21	806
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	1.80	1.45	1.21	806
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	1.80	1.45	1.21	806

### DRQ74 Series

MOUSER STOCK NO.	Coiltronics Part No.	Rated Inductance (µH)	Parallel Ratings					Series Ratings					Price Each			
			OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (Typical)	OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (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	1.84	1.38	1.23	104
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	1.97	1.48	1.33	104
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	1.97	1.48	1.33	104
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	1.97	1.48	1.33	104

### DRQ125 Series

MOUSER STOCK NO.	Coiltronics Part No.	Rated Inductance (µH)	Parallel Ratings					Series Ratings					Price Each			
			OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (Typical)	OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (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	1.96	1.49	1.32	818
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	1.96	1.49	1.32	818
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	1.96	1.49	1.32	818
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	1.96	1.49	1.32	818

### DRQ127 Series

MOUSER STOCK NO.	Coiltronics Part No.	Rated Inductance (µH)	Parallel Ratings					Series Ratings					Price Each			
			OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (Typical)	OCL (µH) ±20%	Irms (A)	I <sub>sat</sub> (A)	DCR (Ω @ 20°C) (Typical)	Volt/µSec (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	2.14	1.77	1.48	969
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	2.14	1.62	1.48	947
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	2.14	1.62	1.48	969
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	2.14	1.73	1.48	969
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	2.14	1.62	1.48	969
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	2.14	1.62	1.48	969

## MPA7030 SERIES, HIGH FREQUENCY HIGH CURRENT POWER INDUCTORS

### Features:

- Halogen free
- 165°C maximum total temperature operation
- 7.6x7.0x3.0mm maximum surface mount package
- Magnetically shielded

- Rugged construction
- Handles high transient inrush current spikes
- Inductance Range from 1.5µH to 8.2µH
- Current range from 3.5 to 17.5Amps

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Coiltronics Part No.	Open Circuit Inductance (µH)	Irms (A)	I <sub>sat</sub> (A)	SRF (MHz) Min	DCR (Ω)	Price Each				Reel Qty.	Price Each	
							1	50	100	500			
704-MPA7030-1R5-R	MPA7030-1R5-R	1.5	9.20	7.60	17.5	37	13.5	2.36	2.04	1.63	1.38	1500	.953
704-MPA7030-2R2-R	MPA7030-2R2-R	2.2	7.70	6.30	11.0	28	19.6	2.36	2.04	1.63	1.38	1500	.953
704-MPA7030-3R3-R	MPA7030-3R3-R	3.3	6.20	5.40	11.0	19	26.0	2.36	2.04	1.63	1.38	1500	.953
704-MPA7030-4R7-R	MPA7030-4R7-R	4.7	5.50	4.70	9.5	15	36.5	2.36	2.04	1.63	1.38	1500	.953
704-MPA7030-6R8-R	MPA7030-6R8-R	6.8	4.50	3.80	7.5	12	55.0	2.36	2.04	1.63	1.38	1500	.953
704-MPA7030-8R2-R	MPA7030-8R2-R	8.2	4.00	3.50	8.0	10	64.5	2.36	2.04	1.63	1.38	1500	.953

DIMENSIONS: mm

**MPA7030**

**MPA4040**

\*"A" Dimension:  
MPA4040R1= 1.2mm max  
MPA4040R2= 1.5mm max

## 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
- GPS/PDAs
- MP3 Players
- Notebook/Netbook

MOUSER STOCK NO.	Coiltronics Part No.	OCL1 ± 15% (µH)	I <sub>rms</sub> 2 (Amps)	I <sub>sat</sub> 3 (Amps)	(mΩ) @ 20°C ± 15%	K-factor4	Price Each			
							1	50	100	500
704-MPI4040R1-R15-R	MPI4040R1-R15-R	0.15	6.5	26	11	1694	1.20	.939	.855	.776
704-MPI4040R1-R47-R	MPI4040R1-R47-R	0.47	3.75	11	35	912	1.20	.939	.855	.776
704-MPI4040R1-R68-R	MPI4040R1-R68-R	0.68	3.1	9	51	790	1.20	.939	.855	.776
704-MPI4040R2-R47-R	MPI4040R2-R47-R	0.47	4.3	13	28	912	1.23	.939	.855	.776
704-MPI4040R2-1R0-R	MPI4040R2-1R0-R	1	3.8	2.25	38	760	1.23	.939	.855	.776
704-MPI4040R3-1R5-R	MPI4040R3-1R5-R	1.5	3.8	8.2	36	600	1.54	1.18	1.08	.943
704-MPI4040R2-2R2-R	MPI4040R2-2R2-R	2.2	2.3	1.5	82	506	1.23	.939	.855	.776
704-MPI4040R3-2R2-R	MPI4040R3-2R2-R	2.2	3.4	7.9	48	506	1.54	1.18	1.08	.943
704-MPI4040R2-3R3-R	MPI4040R2-3R3-R	3.3	1.96	1.25	113	430	1.23	.939	.855	.776
704-MPI4040R3-3R3-R	MPI4040R3-3R3-R	3.3	3	6.6	60	430	1.54	1.18	1.08	.943
704-MPI4040R2-4R7-R	MPI4040R2-4R7-R	4.7	1.6	1.1	175	368	1.23	.939	.855	.776
704-MPI4040R3-4R7-R	MPI4040R3-4R7-R	4.7	2.3	4.8	92	350	1.54	1.18	1.08	.943
704-MPI4040R3-6R8-R	MPI4040R3-6R8-R	6.8	2	4.5	140	290	1.54	1.18	1.08	.943
704-MPI4040R3-100-R	MPI4040R3-100-R	10	1.5	3.8	213	240	1.54	1.18	1.08	.943
704-MPI4040R3-220-R	MPI4040R3-220-R	22	1.1	2.2	408	160	1.54	1.18	1.08	.943