

Magnetics Competitive Quick Cross Reference

Coiltronics	Sumida	Coilcraft	Pulse	Toko	Vishay
Shielded Drum Core					
DR1030	CDRH103R	—	—	—	—
DR1040	CDRH104R	MSS1038	PF0560	—	—
DR1050	CDRH105R	—	—	919AS	—
DR73	CDRH73*	—	P1166	636CY*	—
DR74	CDRH74*	—	P1167	646CY*	—
DR124	CDRH124	—	P1168	892NAS*	—
DR125	CDRH125	MSS1260(M)	P1170	—	—
DR127	CDRH127	MSS1278(M)	P1172	931BS	—
DRQ73	—	—	—	—	—
DRQ74	—	—	—	—	—
DRQ125	—	—	PF0552	—	—
DRQ127	—	MSD1278*	PF0553	—	—
LDS0705	CDR74B	—	—	—	—
SD20	CDRH4D18C*	—	—	—	—
SD25	CDRH4D22/HP	—	—	—	—
	CDRH4D28*	—	—	—	—
SD52	—	—	—	A914BYW	—
SD53	CDRH4D28C	—	—	A915AY	—
SDH3812	—	—	—	1001AS*	—
SD6020	CDRH5D18	—	—	—	—
SD6030	CDRH5D28	MSS6132*	—	—	—
SD7030	CDRH6D28	—	—	—	—
SD8328	CDRH8D28	—	—	—	—
SD8350	CDRH8D43	—	—	—	—
UP0.4SC	—	DS1608C	—	—	IDCS-2512
UP2SC	—	DS3316P	—	—	IDCS-5020
UP5S	—	DS5022P	—	—	—
High Current					
FP2(S)	—	—	P1681	—	—
FP3	—	—	—	—	IHLP-2525CZ-01*
FP4	—	—	PA0511	—	—
HC9	—	—	PA0513*	—	—
FP1308	—	—	PA0513	—	—
High Current (Pressed Powder Iron)					
HCP0703	—	—	—	FDV0603	IHLP2525CZ-01
HCP1104	—	—	PG0255	—	IHLP-4040DZ-51*
HCP1305	—	—	PG0077*	—	IHLP-5050EZ-01
Unshielded Drum Core					
LD1	CD43	—	—	—	IDCP-1813ER
LD2	—	—	—	—	IDCP-3020ER
UP0.4UC	—	D01608C	—	—	IDC-2512
UP1B	—	D01813H	PA0390*	—	—
UP2.8B	—	D03308P	—	—	—
UP2UC	—	D03316P	—	—	IDC-5020
UP4B	—	D05022H*	P1252*	—	—
UP5	—	D05022P	P0250	—	—

*Indicates similar cross; mechanical dimensions and performance characteristics may be different.

Inductor Selector Guide

Product Family	Maximum Current Rating (Amps)		Maximum Inductance Rating (μH)		Winding Configuration (if applicable)	Product Size (mm)			Core Structure	EMI Rating²	SMT/THT
	Inductance	Current¹	Inductance	Current¹		L	W	H			
Shielded Drum Core											
DR1030	1.10	7.00	150.0	0.680	-	10.50	10.30	3.00	Shld Drum	2	SMT
DR1040	1.50	6.50	330.0	0.520	-	10.50	10.30	4.00	Shld Drum	2	SMT
DR1050	0.80	9.70	1000.0	0.430	-	10.50	10.30	5.00	Shld Drum	2	SMT
DR73	0.33	6.21	1000.0	0.250	-	7.60	7.60	3.55	Shld Drum	2	SMT
DR74	0.33	6.26	1000.0	0.270	-	7.60	7.60	4.35	Shld Drum	2	SMT
DR124	0.47	16.00	1000.0	0.440	-	12.30	12.30	4.50	Shld Drum	2	SMT
DR125	0.47	17.60	1000.0	0.570	-	12.50	12.50	6.00	Shld Drum	2	SMT
DR127	0.47	17.90	1000.0	0.610	-	12.50	12.50	8.00	Shld Drum	2	SMT
DRQ73	0.33	6.19	1000.0	0.250	Parallel	7.60	7.60	3.55	Shld Drum	2	SMT
DRQ73	1.22	3.10	3980.0	0.128	Series	7.60	7.60	3.55	Shld Drum	2	SMT
DRQ74	1.18	3.10	4036.0	0.135	Series	7.60	7.60	4.35	Shld Drum	2	SMT
DRQ74	0.33	6.20	1000.0	0.270	Parallel	7.60	7.60	4.35	Shld Drum	2	SMT
DRQ125	0.47	17.60	1000.0	0.570	Parallel	12.50	12.50	6.00	Shld Drum	2	SMT
DRQ125	1.82	8.80	4032.0	0.283	Series	12.50	12.50	6.00	Shld Drum	2	SMT
DRQ127	1.68	8.94	4020.0	0.307	Series	12.50	12.50	8.00	Shld Drum	2	SMT
DRQ127	0.47	17.90	1000.0	0.610	Parallel	12.50	12.50	8.00	Shld Drum	2	SMT
LDS0705	0.82	7.68	470.0	0.368	-	8.00	7.20	5.00	Shld Drum	2	SMT
SD20	0.47	3.59	1000.0	0.088	-	5.20	5.20	2.00	Shld Drum	2	SMT
SD25	0.47	3.88	1000.0	0.126	-	5.20	5.20	2.50	Shld Drum	2	SMT
SD52	1.20	2.33	150.0	0.280	-	5.60	5.20	2.00	Shld Drum	2	SMT
SD53	1.10	3.25	100.0	0.440	-	5.20	5.20	3.00	Shld Drum	2	SMT
SDH3812	0.47	2.69	220.0	0.160	-	4.00	4.00	1.20	Shld Drum	2	SMT
SD6020	3.90	1.95	100.0	0.360	-	6.00	6.00	2.00	Shld Drum	2	SMT
SD6030	2.70	2.60	680.0	0.160	-	6.00	6.00	3.00	Shld Drum	2	SMT
SD7030	3.30	3.00	680.0	0.210	-	7.00	7.00	3.00	Shld Drum	2	SMT
SD8328	2.50	4.50	100.0	0.800	-	9.50	8.30	3.00	Shld Drum	2	SMT
SD8350	1.80	5.50	100.0	0.800	-	9.50	8.30	4.50	Shld Drum	2	SMT
UP0.4SC	1.00	3.00	1000.0	0.020	-	6.60	4.45	2.92	Shld Drum	2	SMT
UP2SC	1.00	11.00	390.0	0.330	-	12.90	10.20	5.20	Shld Drum	2	SMT
UP5S	10.00	7.36	1000.0	0.550	-	18.70	15.30	7.50	Shld Drum	2	SMT
High Current											
FLAT-PAC Single (FP2-S ₁)	0.047	39.00	0.120	18.00	-	7.20	6.70	3.00	UI	2	SMT
FLAT-PAC Single (FP3-S)	0.100	19.00	15.0	2.00	-	7.25	6.50	3.00	EI	1	SMT
FLAT-PAC Single (FP4-S ₁)	0.100	40.00	0.200	30.00	-	6.80	10.20	5.00	UI	2	SMT
HC9	0.200	46.70	47.000	3.65	-	13.80	13.10	7.50	EI	2	SMT
FLAT-PAC (FP1308)	0.110	68.00	0.440	32.00	-	13.70	12.95	8.00	UI	2	SMT
High Current (Pressed Power Iron)											
HCP0703	0.150	26.00	10.000	3.00	-	7.30	7.00	3.00	EI	1	SMT
HCP1104	0.200	32.00	0.900	22.00	-	11.50	10.25	4.00	EI	1	SMT
HCP1305	0.470	38.00	2.200	20.00	-	13.80	12.90	5.00	EI	1	SMT
Unshielded Drum Core											
LD1	1.00	2.60	68.0	0.460		4.50	4.00	3.20	Drum	3	SMT
LD2	10.00	3.45	470.0	0.550		7.80	7.00	5.00	Drum	3	SMT
UNI-PAC 0.4UC (UP0.4UC)	1.00	2.90	1000.0	0.070	-	6.60	4.45	2.92	Drum	3	SMT
UNI-PAC 1B (UP1B)	0.47	6.00	330.0	0.280	-	8.89	6.10	5.00	Drum	3	SMT
UNI-PAC 2.8B (UP2.8B)	1.00	3.60	150.0	0.620	-	12.90	9.40	2.80	Drum	3	SMT
UNI-PAC 2UC (UP2UC)	1.00	9.00	1000.0	0.300	-	12.90	9.50	5.21	Drum	3	SMT
UNI-PAC 4B (UP4B)	0.47	19.20	470.0	0.914	-	22.10	15.00	7.87	Drum	3	SMT
UNI-PAC 5 (UP5)	1.00	20.00	1000.0	0.560	-	18.70	15.30	7.50	Drum	3	SMT

Note 1 = Current ratings listed are the lower value of the I_{sat} and I_{rms} ratings

Note 2 = EMI Rating: 1) Closed magnetic path - best EMI shield;
2) Small gap, or external shield - some EMI fringing;
3) No shield - Highest EMI

General information needed to select proper inductor:

I. Inductance and Current requirements
II. Mounting style (surface mount or thru hole) and size constraints

III. Frequency of operation (switching frequency)

IV. Circuit susceptibility to EMI

V. Consider using two parts in series for lower profiles, higher current ratings or higher inductance values

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636-394-2877
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