

UNSHIELDED SMD POWER INDUCTORS / DS TYPE

FEATURES

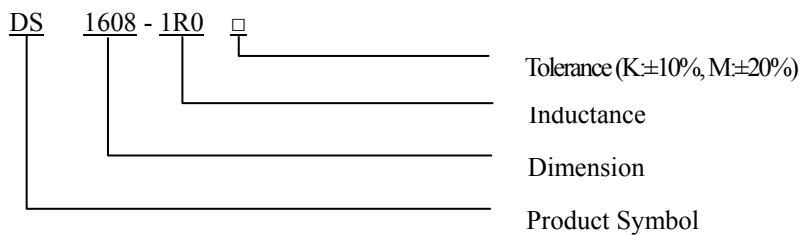
- ◆ Designed for the smallest possible size and high performance
- ◆ They are with high energy storage and very low resistance making them the ideal inductors for DC-DC conversion in the following applications
- ◆ DS 1608 used ceramic base with gold-plating
- ◆ Others used LCP plastic base

APPLICATIONS

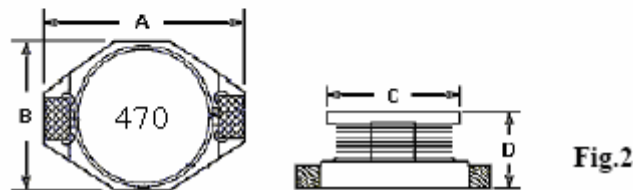
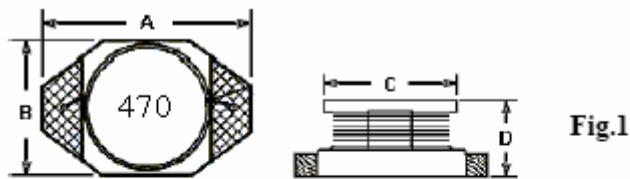
- ◆ Notebook
- ◆ Digital camera & scanner
- ◆ CD-Rom & DVD DC/DC converter



ORDERING CODE



SHAPES



DIMENSIONS (UNIT: mm)

Part No.	Fig.	A(Max)	B(Max)	C(Max)	D(Max)
DS 1608	1	6.60	4.45	3.94	2.92
DS 3308	2	12.95	9.40	8.38	3.00
DS 3316	2	12.95	9.40	8.38	5.21
DS 3340	2	12.95	9.40	8.38	11.43
DS 5022	2	18.51	15.24	12.70	7.11



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ELECTRICAL CHARACTERISTICS FOR DS1608

Part No.	Inductance (μ H)	RDC (Ω)	IDC (A)
DS1608-1R0 □	1.0	0.063	5.000
DS1608-1R5 □	1.5	0.065	4.500
DS1608-2R0 □	2.0	0.070	4.300
DS1608-2R2 □	2.2	0.070	3.900
DS1608-2R4 □	2.4	0.073	3.800
DS1608-3R3 □	3.3	0.080	3.000
DS1608-4R7 □	4.7	0.100	2.500
DS1608-6R8 □	6.8	0.138	2.200
DS1608-8R2 □	8.2	0.149	2.000
DS1608-8R8 □	8.8	0.150	2.000
DS1608-100 □	10	0.160	1.700
DS1608-150 □	15	0.230	1.400
DS1608-200 □	20	0.300	1.200
DS1608-220 □	22	0.400	1.100
DS1608-270 □	27	0.400	1.050
DS1608-330 □	33	0.510	0.900
DS1608-400 □	40	0.580	0.800
DS1608-470 □	47	0.750	0.700
DS1608-680 □	68	0.800	0.650
DS1608-101 □	100	1.270	0.550
DS1608-181 □	180	2.500	0.400
DS1608-221 □	220	3.100	0.300
DS1608-331 □	330	4.200	0.200
DS1608-471 □	470	9.580	0.150
DS1608-681 □	680	9.600	0.130
DS1608-102 □	1000	12.00	0.100
DS1608-332 □	3300	45.000	0.020
DS1608-352 □	3500	46.000	0.017



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ELECTRICAL CHARACTERISTICS FOR DS3308

Part No.	Inductance (μ H)	RDC (Ω)	IDC (A)
DS3308-4R7 □	4.7	0.06	4.40
DS3308-6R8 □	6.8	0.07	3.70
DS3308-100 □	10	0.08	2.65
DS3308-150 □	15	0.15	2.30
DS3308-220 □	22	0.18	2.00
DS3308-330 □	33	0.30	1.60
DS3308-680 □	68	0.66	1.10
DS3308-101 □	100	0.84	0.90
DS3308-151 □	150	1.20	0.83
DS3308-221 □	220	1.90	0.65
DS3308-681 □	680	3.05	0.30
DS3308-102 □	1000	5.20	0.20



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ELECTRICAL CHARACTERISTICS FOR DS3316

Part No.	Inductance (μ H)	RDC (Ω)	IDC (A)
DS3316-1R0 □	1.0	0.006	15.00
DS3316-1R5 □	1.5	0.010	13.00
DS3316-2R2 □	2.2	0.010	12.10
DS3316-3R3 □	3.3	0.014	9.00
DS3316-4R7 □	4.7	0.023	8.00
DS3316-6R8 □	6.8	0.045	6.40
DS3316-100 □	10	0.050	5.60
DS3316-120 □	12	0.062	5.10
DS3316-150 □	15	0.065	5.00
DS3316-180 □	18	0.070	4.00
DS3316-220 □	22	0.085	2.50
DS3316-330 □	33	0.10	2.10
DS3316-470 □	47	0.14	2.00
DS3316-680 □	68	0.20	2.00
DS3316-101 □	100	0.28	1.50
DS3316-151 □	150	0.40	1.40
DS3316-221 □	220	0.61	1.00
DS3316-331 □	330	1.02	0.95
DS3316-471 □	470	1.40	0.50
DS3316-681 □	680	2.00	0.40
DS3316-102 □	1000	3.50	0.30



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ELECTRICAL CHARACTERISTICS FOR DS3340

Part No.	Inductance (μ H)	RDC (Ω)	IDC (A)
DS3340-R82 □	0.82	0.0065	20.0
DS3340-1R0 □	1.0	0.0065	20.0
DS3340-1R2 □	1.2	0.0073	20.0
DS3340-2R2 □	2.2	0.0180	20.0
DS3340-3R3 □	3.3	0.0180	20.0
DS3340-4R7 □	4.7	0.0200	18.0
DS3340-6R8 □	6.8	0.0400	11.0
DS3340-100 □	10	0.0450	10.5
DS3340-120 □	12	0.0480	10.0
DS3340-150 □	15	0.0550	10.0
DS3340-180 □	18	0.0650	10.0
DS3340-220 □	22	0.0700	8.5
DS3340-330 □	33	0.0800	4.0
DS3340-470 □	47	0.1000	3.8
DS3340-680 □	68	0.1700	3.0
DS3340-101 □	100	0.2200	3.0
DS3340-151 □	150	0.3400	3.0
DS3340-221 □	220	0.4400	2.6
DS3340-331 □	330	0.7000	2.0
DS3340-471 □	470	0.9500	1.0
DS3340-681 □	680	0.9500	1.0
DS3340-821 □	820	1.6300	1.0
DS3340-102 □	1000	8.5000	0.5



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ELECTRICAL CHARACTERISTICS FOR DS5022

Part No.	Inductance (μ H)	RDC (Ω)	IDC (A)
DS5022-1R0 □	1.0	0.008	20.00
DS5022-1R5 □	1.5	0.015	20.00
DS5022-2R2 □	2.2	0.020	20.00
DS5022-3R3 □	3.3	0.025	18.00
DS5022-5R6 □	5.6	0.030	16.00
DS5022-100 □	10	0.032	14.50
DS5022-120 □	12	0.035	13.00
DS5022-150 □	15	0.036	12.00
DS5022-220 □	22	0.047	10.00
DS5022-310 □	31	0.070	8.10
DS5022-330 □	33	0.075	7.50
DS5022-470 □	47	0.077	7.00
DS5022-680 □	68	0.120	6.00
DS5022-101 □	100	0.190	5.00
DS5022-151 □	150	0.250	4.00
DS5022-221 □	220	0.380	3.00
DS5022-271 □	270	0.500	2.60
DS5022-331 □	330	0.560	2.50
DS5022-401 □	400	0.650	2.40
DS5022-471 □	470	0.850	2.20
DS5022-681 □	680	1.500	1.60
DS5022-751 □	750	2.200	1.52
DS5022-102 □	1000	2.500	1.00
DS5022-202 □	2000	3.100	0.40
DS5022-222 □	2200	3.300	0.40
DS5022-562 □	5600	7.100	0.27
DS5022-303 □	30000	34.300	--

* 100 μ H 以上 Test Frequency : 1KHZ/1V

* 100 μ H 以下 Test Frequency : 100KHZ/0.1V



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