

# UNSHIELDED SMD POWER INDUCTORS / DS TYPE

## FEATURES

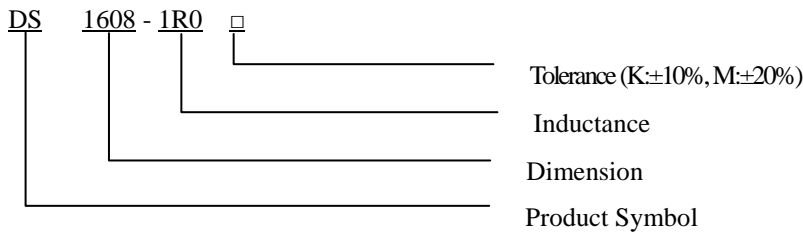
- ◆ Designed for the smallest possible size and high performance
- ◆ They are with high energy storage and very low resistance making them the ideal inductors for DC-DC conversion in the following applications
- ◆ DS 1608 used ceramic base with gold-plating
- ◆ Others used LCP plastic base



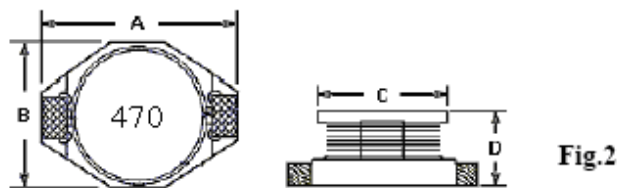
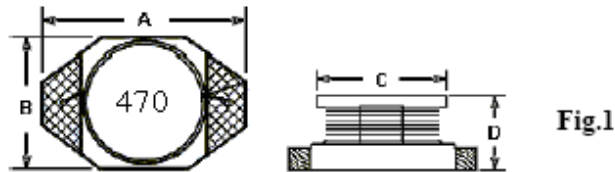
## APPLICATIONS

- ◆ Portable telephones.
- ◆ Personal computers.
- ◆ DC/DC converters, etc.
- ◆ Other various electronic appliances.

## 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 (uH)	RDC ( $\Omega$ )	IDC (A)
DS1608-1R0 □	1.0	0.063	5.00
DS1608-2R2 □	2.2	0.070	3.90
DS1608-3R3 □	3.3	0.080	3.00
DS1608-4R7 □	4.7	0.100	2.50
DS1608-6R8 □	6.8	0.138	2.20
DS1608-8R2 □	8.2	0.149	2.00
DS1608-100 □	10	0.160	1.70
DS1608-150 □	15	0.230	1.40
DS1608-220 □	22	0.400	1.10
DS1608-270 □	27	0.420	1.05
DS1608-330 □	33	0.510	0.90
DS1608-470 □	47	0.750	0.70
DS1608-680 □	68	0.800	0.65
DS1608-101 □	100	1.270	0.55
DS1608-181 □	180	2.500	0.40
DS1608-221 □	220	3.100	0.30
DS1608-331 □	330	4.200	0.20
DS1608-471 □	470	9.580	0.15
DS1608-681 □	680	9.600	0.13
DS1608-102 □	1000	12.000	0.10

### ELECTRICAL CHARACTERISTICS FOR DS3308

Part No.	Inductance (uH)	RDC ( $\Omega$ )	IDC (A)
DS3308-4R7 □	4.7	0.060	4.40
DS3308-6R8 □	6.8	0.070	3.70
DS3308-100 □	10	0.080	2.65
DS3308-150 □	15	0.150	2.30
DS3308-220 □	22	0.180	2.00
DS3308-330 □	33	0.300	1.60
DS3308-470 □	47	0.400	1.42
DS3308-680 □	68	0.660	1.10
DS3308-101 □	100	0.840	0.90
DS3308-151 □	150	1.200	0.83
DS3308-221 □	220	1.900	0.65
DS3308-681 □	680	3.050	0.30
DS3308-102 □	1000	5.200	0.20

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## UNSHIELDED SMD POWER INDUCTORS / DS TYPE

### ELECTRICAL CHARACTERISTICS FOR DS3316

Part No.	Inductance (uH)	RDC ( $\Omega$ )	IDC (A)
DS3316-1R0 □	1.0	0.007	15.00
DS3316-2R2 □	2.2	0.020	12.10
DS3316-3R3 □	3.3	0.021	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
DS3316-150 □	15	0.065	5.00
DS3316-180 □	18	0.070	4.00
DS3316-220 □	22	0.085	3.60
DS3316-330 □	33	0.100	3.20
DS3316-470 □	47	0.140	2.30
DS3316-680 □	68	0.200	2.00
DS3316-101 □	100	0.280	1.50
DS3316-151 □	150	0.400	1.40
DS3316-221 □	220	0.610	1.00
DS3316-331 □	330	1.020	0.95
DS3316-471 □	470	1.400	0.50
DS3316-681 □	680	2.000	0.40
DS3316-102 □	1000	3.500	0.30

### ELECTRICAL CHARACTERISTICS FOR DS3340

Part No.	Inductance (uH)	RDC ( $\Omega$ )	IDC (A)
DS3340-1R0 □	1.0	0.007	20.00
DS3340-2R2 □	2.2	0.016	19.50
DS3340-3R3 □	3.3	0.018	19.00
DS3340-4R7 □	4.7	0.020	18.00
DS3340-6R8 □	6.8	0.040	11.00
DS3340-100 □	10	0.045	10.50
DS3340-150 □	15	0.055	10.00
DS3340-220 □	22	0.070	8.50
DS3340-330 □	33	0.080	7.30
DS3340-470 □	47	0.100	6.00
DS3340-680 □	68	0.170	4.80
DS3340-101 □	100	0.220	3.20
DS3340-151 □	150	0.340	3.00
DS3340-221 □	220	0.440	2.60

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### ELECTRICAL CHARACTERISTICS FOR DS3340

Part No.	Inductance (uH)	RDC ( $\Omega$ )	IDC (A)
DS3340-331 □	330	0.700	2.00
DS3340-471 □	470	0.950	1.20
DS3340-681 □	680	1.000	1.10
DS3340-821 □	820	1.630	1.00
DS3340-102 □	1000	2.600	0.50

### ELECTRICAL CHARACTERISTICS FOR DS5022

Part No.	Inductance (uH)	RDC ( $\Omega$ )	IDC (A)
DS5022-1R0 □	1.0	0.008	20.00
DS5022-2R2 □	2.2	0.020	19.00
DS5022-3R3 □	3.3	0.025	18.00
DS5022-5R6 □	5.6	0.030	16.00
DS5022-100 □	10	0.032	14.50
DS5022-150 □	15	0.036	12.00
DS5022-220 □	22	0.047	10.00
DS5022-330 □	33	0.070	9.00
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
DS5022-331 □	330	0.560	2.50
DS5022-471 □	470	0.850	2.20
DS5022-681 □	680	0.910	1.60
DS5022-102 □	1000	2.500	1.00
DS5022-222 □	2200	3.300	0.40

\* 100uH 以上 Test Frequency : 1KHZ/1V

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