

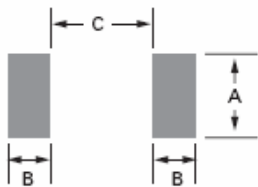


DU Series POWER INDUCTORS

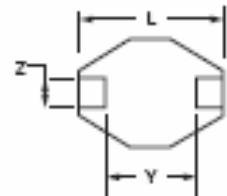
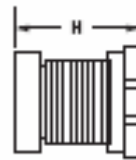
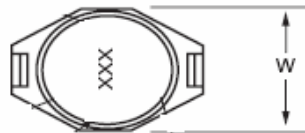


- High energy storage and low resistance
- Ideal for DC-DC buck or boost conversion
- Reliable surface mounting
- Drop-in replacements for industry prevalent competitor series
- Robust temperature deflection to help prevent damage during solder reflow
- Operating temperature range -40°C to +85°C
- Lead free and RoHS compliant

Mechanical



suggest pad layout



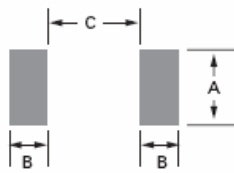
Number	Units	Maximum Dimensions			Reference Dimensions				
		L	W	H	Y	Z	A	B	C
DU1	inches (mm)	0.260 (6.60)	0.177 (4.50)	0.115 (2.92)	0.190 (4.83)	0.050 (1.27)	0.140 (3.56)	0.055 (1.40)	0.160 (4.06)
DU2	inches (mm)	0.510 (12.95)	0.370 (9.40)	0.130 (3.30)	0.300 (7.62)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.290 (7.37)
DU3	inches (mm)	0.510 (12.95)	0.370 (9.40)	0.205 (5.21)	0.300 (7.62)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.290 (7.37)
DU4	inches (mm)	0.510 (12.95)	0.370 (9.40)	0.450 (11.43)	0.300 (7.62)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.290 (7.37)
DU5	inches (mm)	0.730 (18.54)	0.600 (15.24)	0.291 (7.40)	0.500 (12.70)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.490 (12.45)



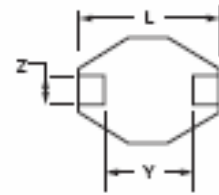
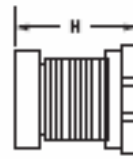
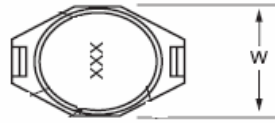


DU Series POWER INDUCTORS

DU1 Series



suggest pad layout



L	W	H	Y	Z	A	B	C
0.260 (6.60)	0.177 (4.50)	0.115 (2.92)	0.190 (4.83)	0.050 (1.27)	0.140 (3.56)	0.055 (1.40)	0.160 (4.06)

Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	IRMS A	Tolerance Suffix
DU11R0M	1.0	0.050	2.90	2.90	M
DU11R5M	1.5	0.050	2.60	2.80	M
DU12R2M	2.2	0.070	2.30	2.40	M
DU13R3M	3.3	0.080	2.00	2.00	M
DU14R7M	4.7	0.090	1.50	1.50	M
DU16R8M	6.8	0.130	1.20	1.40	M
DU1100M	10	0.160	1.10	1.30	M
DU1150M	15	0.230	0.90	1.20	M
DU1220M	22	0.370	0.70	0.80	M
DU1330M	33	0.510	0.58	0.60	M
DU1470M	47	0.640	0.50	0.50	M
DU1680M	68	0.860	0.40	0.40	M
DU1101M	100	1.270	0.31	0.30	M
DU1151M	150	2.000	0.27	0.25	M
DU1221M	220	3.110	0.22	0.20	M
DU1331M	330	4.800	0.18	0.16	M
DU1471M	470	6.600	0.16	0.15	M
DU1681M	680	9.200	0.10	0.12	M
DU1102M	1000	13.80	0.10	0.07	M

Note:

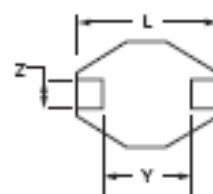
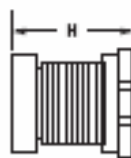
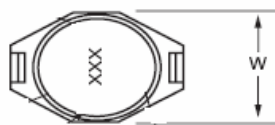
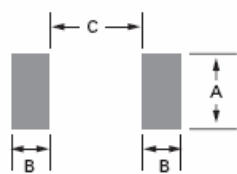
- Inductance measured at 100kHz and 100mV
- DCR is a maximum @20°C
- ISAT current applied to produce a typical 10% drop in nominal inductance
- IRMS current applied to produce a typical 40°C temperature rise
- Suffix of M = ±20%





DU Series POWER INDUCTORS

DU2 Series



suggest pad layout

L	W	H	Y	Z	A	B	C
0.510 (12.95)	0.370 (9.40)	0.130 (3.30)	0.300 (7.62)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.290 (7.37)

Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	IRMS A	Tolerance Suffix
DU2100M	10	0.110	2.40	2.00	M
DU2150M	15	0.150	2.00	1.50	M
DU2220M	22	0.230	1.60	1.30	M
DU2330M	33	0.300	1.40	1.10	M
DU2470M	47	0.390	1.00	0.80	M
DU2680M	68	0.660	0.90	0.70	M
DU2101M	100	0.840	0.70	0.60	M
DU2151M	150	1.200	0.60	0.50	M
DU2221M	220	1.900	0.50	0.40	M
DU2331M	330	2.700	0.40	0.30	M
DU2471M	470	4.000	0.30	0.20	M
DU2681M	680	5.300	0.20	0.10	M
DU2102M	1000	8.400	0.10	0.05	M

Note:

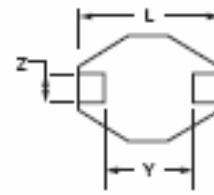
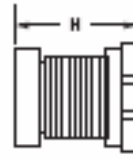
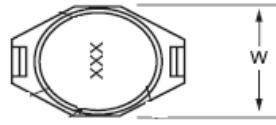
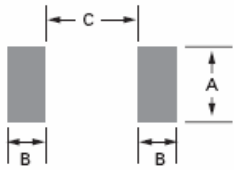
- Inductance measured at 100kHz and 100mV
- DCR is a maximum @20°C
- ISAT current applied to produce a typical 10% drop in nominal inductance
- IRMS current applied to produce a typical 40°C temperature rise
- Suffix of M = ±20%





DU Series POWER INDUCTORS

DU3 Series



suggest pad layout

L	W	H	Y	Z	A	B	C
0.510 (12.95)	0.370 (9.40)	0.205 (5.21)	0.300 (7.62)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.290 (7.37)

Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	IRMS A	Tolerance Suffix
DU31R0M	1.0	0.0092	9.00	6.80	M
DU31R5M	1.5	0.0104	8.00	6.40	M
DU32R2M	2.2	0.0120	7.00	6.10	M
DU33R3M	3.3	0.0150	6.40	5.40	M
DU34R7M	4.7	0.0184	5.40	4.80	M
DU36R8M	6.8	0.0270	4.60	4.40	M
DU3100M	10	0.0380	3.80	3.90	M
DU3150M	15	0.0460	3.00	3.10	M
DU3220M	22	0.0850	2.60	2.70	M
DU3330M	33	0.1012	2.00	2.10	M
DU3470M	47	0.1400	1.60	1.80	M
DU3680M	68	0.2000	1.40	1.50	M
DU3101M	100	0.2800	1.20	1.30	M
DU3151M	150	0.4000	1.00	1.00	M
DU3221M	220	0.6100	0.80	0.80	M
DU3331M	330	1.0200	0.60	0.60	M
DU3471M	470	1.2700	0.50	0.50	M
DU3102M	1000	3.0000	0.30	0.30	M

Note:

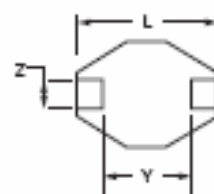
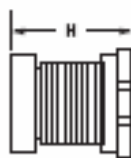
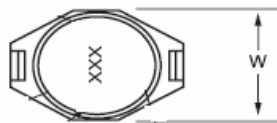
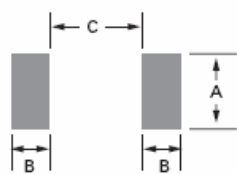
- Inductance measured at 100kHz and 100mV
- DCR is a maximum @20°C
- ISAT current applied to produce a typical 10% drop in nominal inductance
- IRMS current applied to produce a typical 40°C temperature rise
- Suffix of M = ±20%





DU Series POWER INDUCTORS

DU4 Series



suggest pad layout

L	W	H	Y	Z	A	B	C
0.510 (12.95)	0.370 (9.40)	0.450 (11.43)	0.300 (7.62)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.290 (7.37)

Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	IRMS A	Tolerance Suffix
DU46R8M	6.8	0.015	10.0	5.00	M
DU4100M	10	0.040	8.00	3.50	M
DU4150M	15	0.050	7.00	3.00	M
DU4220M	22	0.070	5.50	2.50	M
DU4330M	33	0.080	4.00	2.00	M
DU4470M	47	0.110	3.80	1.60	M
DU4680M	68	0.170	3.00	1.20	M
DU4101M	100	0.220	2.50	1.20	M
DU4151M	150	0.340	2.00	0.90	M
DU4221M	220	0.440	1.60	0.70	M
DU4331M	330	0.700	1.20	0.60	M
DU4471M	470	0.950	1.00	0.30	M
DU4681M	680	1.200	1.00	0.20	M
DU4102M	1000	2.000	0.80	0.10	M

Note:

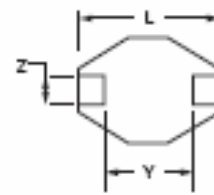
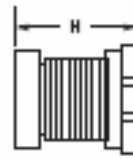
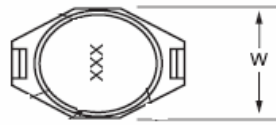
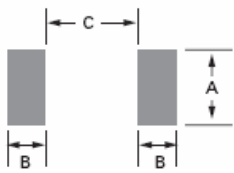
- Inductance measured at 100kHz and 100mV
- DCR is a maximum @20°C
- ISAT current applied to produce a typical 10% drop in nominal inductance
- IRMS current applied to produce a typical 40°C temperature rise
- Suffix of M = ±20%





DU Series POWER INDUCTORS

DU5 Series



suggest pad layout

L	W	H	Y	Z	A	B	C
0.730 (18.54)	0.600 (15.24)	0.291 (7.40)	0.500 (12.70)	0.100 (2.54)	0.110 (2.79)	0.115 (2.92)	0.490 (12.45)

Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	IRMS A	Tolerance Suffix
DU52R2M	2.2	0.014	16.0	7.10	M
DU53R3M	3.3	0.018	14.0	6.20	M
DU55R6M	5.6	0.020	12.0	5.30	M
DU5100M	10	0.031	10.0	4.30	M
DU5150M	15	0.036	8.00	4.00	M
DU5220M	22	0.047	7.00	3.50	M
DU5330M	33	0.066	5.50	3.00	M
DU5470M	47	0.086	4.50	2.60	M
DU5680M	68	0.130	3.50	2.30	M
DU5101M	100	0.190	3.00	1.80	M
DU5151M	150	0.250	2.60	1.50	M
DU5221M	220	0.380	2.40	1.20	M
DU5331M	330	0.560	1.90	1.00	M
DU5471M	470	0.850	1.40	0.82	M
DU5681M	680	1.100	1.20	0.72	M
DU5102M	1000	1.800	1.00	0.56	M

Note:

- Inductance measured at 100kHz and 100mV
- DCR is a maximum @20°C
- ISAT current applied to produce a typical 10% drop in nominal inductance
- IRMS current applied to produce a typical 40°C temperature rise
- Suffix of M = ±20%

