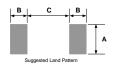
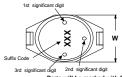
Series Number DS6630 m DS1137 DS1145 DS1351 tyco | Electronics DS1976

3003 9th Avenue SW PO Box 50 Watertown, SD 57201 Toll free: 888-978-2638 Ph: 605-886-3326

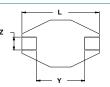


Shielded Drum Core Inductors, Tape and Reel Easy Part Numbers: ( Series Number ) - ( Suffix Code )(Tolerance), example DS1137-150M Bulk Packaging add (-B) to end of Part Numbering Sequence. example DS1137-150M-B









Parts will be marked with Significant Digit Dots OR Suffix code

Series	Maxi	mum Dimen:	sions	Reference Dimensions							
Number	L	w	н	Y	Z	A	В	С			
DS6630	0.260*	0.177"	0.115"	0.170*	0.050"	0.140"	0.055*	0.160"			
D30030	[ 6.60 ]	[ 4.50 ]	[2.92]	[4.32]	[1.27]	[ 3.56 ]	[1.40]	[ 4.06			
DS1137	0.421"	0.323"	0.146"	0.236"	0.079"	0.087*	0.094"	0.224			
D31137	[ 10.70 ]	[ 8.20 ]	[ 3.70 ]	[6.00]	[ 2.00 ]	[ 2.20 ]	[2.40]	[ 5.70			
DS1145	0.421"	0.323"	0.177"	0.236"	0.079"	0.087*	0.094"	0.224			
DS1145	[ 10.70 ]	[ 8.20 ]	[4.50]	[6.00]	[ 2.00 ]	[ 2.20 ]	[2.40]	[ 5.70			
DS1351	0.510*	0.398"	0.201"	0.300*	0.100"	0.110"	0.118"	0.290'			
DO1351	[12.95]	[10.10]	[5.10]	[7.62]	[2.54]	[2.80]	[ 3.00 ]	[7.37			
DS1976	0.730*	0.600"	0.300"	0.500*	0.100"	0.110"	0.115"	0.490			
D31976	[ 18.54 ]	[ 15.25 ]	17.621	[ 12.70 ]	[ 2.54 ]	[ 2.79 ]	[ 2.92 ]	I 12.45			

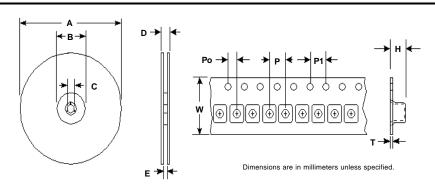
- Features:

  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 prevent damage during solder reflow.
  Tape and Reel mechanical specifications available upon request.
  Operating temperature range -40°C to +85°C.

		DS6630		DS1137			DS1145			DS1351			DS1976							
L <sup>7</sup>	Suffix	DCR1	I <sub>MAX</sub> <sup>2-4</sup>	Tolerance	DCR1	I <sub>SAT</sub> 3	I <sub>RMS</sub> <sup>5</sup>	Tolerance	DCR1	I <sub>SAT</sub> 3	I <sub>RMS</sub> <sup>5</sup>	Tolerance	DCR1	I <sub>SAT</sub> 3	I <sub>RMS</sub> <sup>5</sup>	Tolerance	DCR1	I <sub>SAT</sub> 3	I <sub>RMS</sub> <sup>5</sup>	Tolerance
μH	Codes	W	Α	Suffix <sup>6</sup>	W	Α	Α	Suffix <sup>6</sup>	W	Α	Α	Suffix <sup>6</sup>	W	A	Α	Suffix <sup>6</sup>	W	Α	Α	Suffix <sup>6</sup>
1.0	1R0	0.040	3.0	M									0.021	5.80	5.00	M				
1.5	1R5	0.045	2.8	M									0.022	5.20	4.50	M				
2.2	2R2	0.050	1.8	M					0.040	2.50	2.50	M	0.032	5.00	3.80	M				
3.3	3R3	0.055	1.6	M									0.039	3.90	3.30	M				
3.9	3R9								0.055	2.10	2.10	M								
4.7	4R7	0.060	1.4	M									0.054	2.80	2.70	M				
5.0	5R0				0.080	1.70	1.70	M												
5.6	5R6								0.065	1.95	1.95	M								
6.8	6R8	0.065	1.2	M									0.075	2.80	2.20	M				
7.5	7R5				0.100	1.40	1.40	M												
8.2	8R2								0.080	1.75	1.75	M								
10	100	0.075	1.0	M	0.165	1.20	1.20	M	0.100	1.50	1.50	M	0.101	2.40	2.00	M	0.040	7.00	3.60	M
12	120				0.172	1.10	1.10	M	0.120	1.40	1.40	M								
15	150	0.090	0.80	M	0.181	1.00	1.00	M	0.140	1.30	1.30	M	0.150	2.00	1.50	M	0.048	5.60	3.20	M
18	180				0.190	0.90	0.90	M	0.160	1.20	1.20	M								
22	220	0.110	0.70	M	0.250	0.80	0.80	M	0.180	1.10	1.10	M	0.207	1.50	1.30	M	0.059	5.00	2.80	M
27	270				0.270	0.70	0.70	M	0.200	1.00	1.00	M								
33	330	0.190	0.60	M	0.300	0.65	0.65	M	0.240	0.92	0.92	M	0.334	1.40	1.10	M	0.075	4.50	2.60	M
39	390				0.380	0.60	0.60	M	0.350	0.84	0.84	M								
47	470	0.230	0.50	M	0.580	0.55	0.55	M	0.425	0.75	0.75	M	0.472	1.00	0.80	M	0.097	4.00	2.40	M
56	560				0.620	0.50	0.50	M	0.530	0.68	0.68	M								
68	680	0.290	0.40	M	0.920	0.45	0.45	M	0.668	0.60	0.60	M					0.138	3.00	2.00	M
82	820				0.980	0.40	0.40	M	0.730	0.54	0.54	M								
100	101	0.480	0.3	M					1.050	0.50	0.50	M					0.207	2.40	1.70	M
120	121								1.120	0.45	0.45	M								
150	151	0.590	0.26	M													0.293	2.10	1.30	M
180	181																			
220	221	0.770	0.22	M													0.470	1.90	1.10	M
270	271																			
330	331	1.40	0.2	M													0.780	1.10	0.86	M
390	391																			
470	471	1.80	0.19	M													1.080	1.10	0.73	M
680	681	2.20	0.18	M													1.400	0.96	0.64	M
1000	102	3.40	0.15	M													2.010	0.80	0.53	M
1500	152	4.20	0.12	M																
2200	222	8.50	0.10	M																
3300	332	11.00	0.08	M																
4700	472	25.20	0.06	M																
6800	682	30.80	0.04	M																
10000	103	39.60	0.02	M	8000							4) BO (D:								

- DCRs (DC resistances) are maximums @20°C.
   Total current rating (IDC + IAC)
   DC (Direct Current) current applied to produce a typical 10% drop in nominal inductance.
  - Specifications subject to change without notice
- DC (Direct Current) current applied to produce a typical 30°C temperature rise.
   DC (Direct Current) current applied to produce a typical 40°C temperature rise.
   Suffix of M = 220%
   Inductance measured at 100kHz and 100mV

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Series		Tape and Reel dimensions (mm)										Reel	Packaging
Number	A MAX	B MIN	C ± 0.5	D MAX	E MAX	W ± 0.3	P ± 0.1	Po ± 0.1	P1 ± 0.1	H ± 0.05	T ± 0.05	Quantity	Specification
DS6630	360.0	100.0	13.0	22.4	19.4	16.0	8.0	2.0	4.0	3.5	0.35	2500	90-0057
D\$1137	360.0	100.0	13.0	30.4	27.4	24.0	12.0	2.0	4.0	3.8	0.35	1000	90-0062
DS1145	360.0	100.0	13.0	30.4	27.4	24.0	12.0	2.0	4.0	4.6	0.35	1000	90-0063
D\$1351	360.0	100.0	13.0	30.4	27.4	24.0	16.0	2.0	4.0	5.7	0.35	750	90-0055
DS1976	360.0	100.0	13.0	50.4	47.4	44.0	24.0	2.0	4.0	6.9	0.35	250	90-0065

PACKAGING NOTE: Only pressure sensitive cover tape is to be used.

Customer Packaging Specifications For Print Distribution to Customers

	•							
Series	Revision							
DS SERIES	В							
Shoot 2 of 2								

Item	Specification	Test Met	hod/Condition				
Environmental							
Static Humidity	After exposure part remains within specified electrical parameters for L, Q and DCR.		nvironment of +50°C with 90 re, allow parts to dry for 2 hoken.				
Storage Life	After exposure part remains within specified electrical parameters for L, Q and DCR.		environment of +50°C 90 to 100% R.H. for 46 to 50 are, allow parts to dry for 2 hours before aken.				
Moisture Resistance	Per MIL-STD 202 Method 106, ten 24 hour cycles at +25° have a shorted or open winding.  Per MIL-STD 202 Method 106, ten 24 hour cycles at +25° +65°C at 80 to 95% R.H. During any of the first 9 cycles are revolved from the chamber and exposed to -10°C for Allow parts to dry for 2 hours before measurements are						
Temperature Cycle	After exposure part remains within specified electrical parameters for L, Q and DCR.	1 1 cycle shall consist of: 2 to +85°C 2 to -40°C nsition between extremes.					
Temperature Shock	After exposure part remains within specified electrical parameters for L, Q and DCR.	30 minutes exposure					
General							
Storage Temperature Range	-40°C to +85°C						
Operating Temperature Range	-40°C to +85°C						
Flammability	ame test						
Other							
Vibration	After exposure part remains within specified electrical parameters for L, Q and DCR.	ndomly vibrated per NAVMAT I be subjected to 0.04G/Hz for ses per axis, for each of the the	or a				
Mechanical Shock	After exposure part remains within specified electrical parameters for L, Q and DCR.	•	2 method 213 test condition A axes, 6 times, totaling 18 sho ne).				
Solderability	Wetting shall cover 90% minimum of each termination	Dip pads in RMA flux seconds.	, 63/37 solder (Sn/Pb) at 232	°C for 5 seconds ±2			
Component Adhesion (Push Test)	4 pounds	Apply and measure f	force with a digital force gauge set.				
Resistance to Solvent No sign of degradation in Withstands 6 minutes of alcohol.  appearance or marking detail. Withstands 3 minutes forced spray Freon TMS							
Load Life	After exposure, part shall not have a shorted or open winding.	applied. Parts to be	110°C for 1000 hours with ratested at: start, 500 and 100 perature before testing.				
			Series	Revision			
For Prir	nt Distribution to Custo	mers	DS SERIES	В			
			Sheet 3	of 3			