

DRGH Series

Unshielded DIP Power Inductor

Stackpole Electronics, Inc.

Resistive Product Solutions

Features:

- Designed for high density, small size, and low cost
- Provides low DCR with high DIP stability
- For inductance values outside those listed in the datasheet contact factory
- Find environmental information and packaging specifications in related supplemental documents



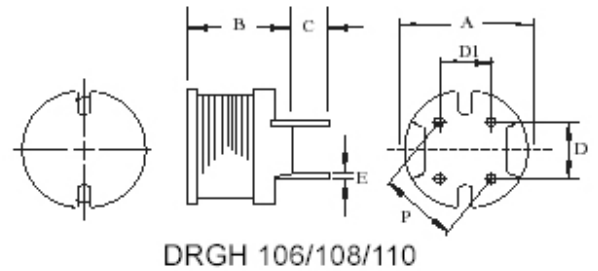
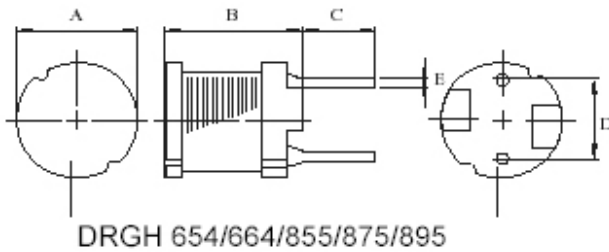
Applications:

- Personal computers
- DC power supplies
- Battery powered equipment
- Power choke

Inductance and Current Ranges		
Type / Code	Inductance (μH)	Current Ranges (A)
DRGH 654	22 - 1,000	0.90 - 0.13
DRGH 664	22 - 1,000	1.27 - 0.19
DRGH 855	10 - 10,000	2.50 - 0.08
DRGH 875	10 - 10,000	2.90 - 0.08
DRGH 895	10 - 47,000	2.60 - 0.04
DRGH 106	10 - 1,000	3.60 - 0.36
DRGH 108	10 - 1,000	4.50 - 0.45
DRGH 110	10 - 1,000	5.30 - 0.53

How to Order

SEI Type		Dimensions		Tolerance		Packaging	Inductance	
DRGH		654		K		T	100	
Type	Description	Code	Dimensions (mm)	Code	Tolerance		Code	Inductance (μH)
DRGH	DIP Power Inductor	654	6.0 x 5.0	M	±20%		100	10
		664	6.0 x 6.5				101	100
		855	7.8 x 5.5				102	1,000
		875	7.8 x 7.5				103	10,000
		895	7.8 x 9.5					
		106	10.0 x 6.0					
		108	10.0 x 8.0					
		110	10.0 x 10.0					



Mechanical Specifications								
Type / Code	A	B	C	D	D1	E	P	Units
DRGH 654	0.236 ± 0.02 6 ± 0.5	0.197 ± 0.02 5 ± 0.5	0.15 ± 0.04 4 ± 1	0.15 ± 0.012 4 ± 0.3	-	0.02 ± 0.004 0.5 ± 0.1	-	inches mm
DRGH 664	0.236 ± 0.02 6 ± 0.5	0.256 ± 0.02 6.5 ± 0.5	0.15 ± 0.04 4 ± 1	0.15 ± 0.012 4 ± 0.3	-	0.02 ± 0.004 0.5 ± 0.1	-	inches mm
DRGH 855	0.307 ± 0.02 7.8 ± 0.5	0.217 ± 0.02 5.5 ± 0.5	0.197 ± 0.04 5 ± 1	0.197 ± 0.012 5 ± 0.3	-	0.028 ± 0.004 0.7 ± 0.1	-	inches mm
DRGH 875	0.307 ± 0.02 7.8 ± 0.5	0.295 ± 0.02 7.5 ± 0.5	0.197 ± 0.04 5 ± 1	0.197 ± 0.012 5 ± 0.3	-	0.028 ± 0.004 0.7 ± 0.1	-	inches mm
DRGH 895	0.307 ± 0.02 7.8 ± 0.5	0.374 ± 0.5 9.5 ± 0.5	0.197 ± 0.04 5 ± 1	0.197 ± 0.012 5 ± 0.3	-	0.028 ± 0.004 0.7 ± 0.1	-	inches mm
DRGH 106	0.394 ± 0.02 10 ± 0.5	0.236 ± 0.02 6 ± 0.5	0.138 ± 0.04 3.5 ± 1	0.197 ± 0.012 5 ± 0.3	0.15 ± 0.012 4 ± 0.3	0.028 ± 0.004 0.7 ± 0.1	0.252 ± 0.02 6.4 ± 0.5	inches mm
DRGH 108	0.394 ± 0.02 10 ± 0.5	0.315 ± 0.02 8 ± 0.5	0.138 ± 0.04 3.5 ± 1	0.197 ± 0.012 5 ± 0.3	0.15 ± 0.012 4 ± 0.3	0.028 ± 0.004 0.7 ± 0.1	0.252 ± 0.02 6.4 ± 0.5	inches mm
DRGH 110	0.394 ± 0.02 10 ± 0.5	0.394 ± 0.02 10 ± 0.5	0.138 ± 0.04 3.5 ± 1	0.197 ± 0.012 5 ± 0.3	0.15 ± 0.012 4 ± 0.3	0.028 ± 0.004 0.7 ± 0.1	0.252 ± 0.02 6.4 ± 0.5	inches mm

Electrical Characteristics DRGH654					
Part Number	L (µH)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH654MT220	22	100	20	0.18	0.90
DRGH654MT270	27	100	20	0.21	0.81
DRGH654MT330	33	100	20	0.27	0.74
DRGH654MT390	39	100	20	0.29	0.68
DRGH654MT470	47	100	20	0.34	0.62
DRGH654MT560	56	100	20	0.42	0.57
DRGH654MT680	68	100	20	0.48	0.51
DRGH654MT820	82	100	20	0.55	0.47
DRGH654MT101	100	1	20	0.68	0.42
DRGH654MT121	120	1	20	0.77	0.39
DRGH654MT151	150	1	20	0.95	0.35
DRGH654MT181	180	1	20	1.15	0.32
DRGH654MT221	220	1	20	1.30	0.29
DRGH654MT271	270	1	20	1.55	0.26
DRGH654MT331	330	1	20	2.18	0.23
DRGH654MT391	390	1	20	2.47	0.21
DRGH654MT471	470	1	20	2.92	0.20
DRGH654MT561	560	1	20	3.97	0.18
DRGH654MT681	680	1	20	4.57	0.16
DRGH654MT821	820	1	20	5.28	0.15
DRGH654MT102	1000	1	20	7.06	0.13

Electrical Characteristics DRGH664

Part Number	L (μ H)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH664MT220	22	100	20	0.11	1.27
DRGH664MT270	27	100	20	0.14	1.14
DRGH664MT330	33	100	20	0.17	1.03
DRGH664MT390	39	100	20	0.19	0.95
DRGH664MT470	47	100	20	0.23	0.87
DRGH664MT560	56	100	20	0.26	0.8
DRGH664MT680	68	100	20	0.28	0.72
DRGH664MT820	82	100	20	0.39	0.66
DRGH664MT101	100	1	20	0.43	0.59
DRGH664MT121	120	1	20	0.54	0.54
DRGH664MT151	150	1	20	0.64	0.48
DRGH664MT181	180	1	20	0.74	0.44
DRGH664MT221	220	1	20	0.96	0.4
DRGH664MT271	270	1	20	1.12	0.36
DRGH664MT331	330	1	20	1.48	0.33
DRGH664MT391	390	1	20	1.66	0.3
DRGH664MT471	470	1	20	1.91	0.27
DRGH664MT561	560	1	20	2.31	0.25
DRGH664MT681	680	1	20	2.67	0.23
DRGH664MT821	820	1	20	3.10	0.21
DRGH664MT102	1000	1	20	4.45	0.19

Electrical Characteristics DRGH855

Part Number	L (μ H)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH855MT100	10	100	20	0.07	2.500
DRGH855MT120	12	100	20	0.08	2.400
DRGH855MT150	15	100	20	0.09	2.100
DRGH855MT180	18	100	20	0.10	2.000
DRGH855MT220	22	100	20	0.12	1.700
DRGH855MT270	27	100	20	0.14	1.600
DRGH855MT330	33	100	20	0.17	1.400
DRGH855MT390	39	100	20	0.21	1.300
DRGH855MT470	47	100	20	0.24	1.200
DRGH855MT560	56	100	20	0.31	1.100
DRGH855MT680	68	100	20	0.34	1.000
DRGH855MT820	82	100	20	0.40	0.930
DRGH855MT101	100	1	20	0.52	0.810
DRGH855MT121	120	1	20	0.59	0.760
DRGH855MT151	150	1	20	0.71	0.670
DRGH855MT181	180	1	20	0.89	0.620
DRGH855MT221	220	1	20	1.04	0.540
DRGH855MT271	270	1	20	1.28	0.490
DRGH855MT331	330	1	20	1.47	0.440
DRGH855MT391	390	1	20	1.67	0.410
DRGH855MT471	470	1	20	1.95	0.380
DRGH855MT561	560	1	20	2.83	0.350
DRGH855MT681	680	1	20	3.25	0.320
DRGH855MT821	820	1	20	3.82	0.310
DRGH855MT102	1000	1	20	5.28	0.250
DRGH855MT122	1200	1	20	6.03	0.230
DRGH855MT152	1500	1	20	7.15	0.210
DRGH855MT182	1800	1	20	8.26	0.200
DRGH855MT222	2200	1	20	11.10	0.180
DRGH855MT272	2700	1	20	13.10	0.160
DRGH855MT332	3300	1	20	15.90	0.140
DRGH855MT392	3900	1	20	18.00	0.130
DRGH855MT472	4700	1	20	23.90	0.120
DRGH855MT562	5600	1	20	26.80	0.110
DRGH855MT682	6800	1	20	31.70	0.098
DRGH855MT822	8200	1	20	46.50	0.088
DRGH855MT103	10000	1	20	55.70	0.081

Electrical Characteristics DRGH875

Part Number	L (μ H)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH875MT100	10	100	20	0.05	2.900
DRGH875MT120	12	100	20	0.06	2.500
DRGH875MT150	15	100	20	0.07	2.200
DRGH875MT180	18	100	20	0.08	1.900
DRGH875MT220	22	100	20	0.09	1.800
DRGH875MT270	27	100	20	0.11	1.700
DRGH875MT330	33	100	20	0.13	1.500
DRGH875MT390	39	100	20	0.14	1.300
DRGH875MT470	47	100	20	0.15	1.300
DRGH875MT560	56	100	20	0.18	1.200
DRGH875MT680	68	100	20	0.20	1.100
DRGH875MT820	82	100	20	0.24	1.000
DRGH875MT101	100	1	20	0.28	0.890
DRGH875MT121	120	1	20	0.36	0.810
DRGH875MT151	150	1	20	0.42	0.720
DRGH875MT181	180	1	20	0.57	0.660
DRGH875MT221	220	1	20	0.63	0.570
DRGH875MT271	270	1	20	0.88	0.510
DRGH875MT331	330	1	20	1.05	0.460
DRGH875MT391	390	1	20	1.17	0.440
DRGH875MT471	470	1	20	1.34	0.410
DRGH875MT561	560	1	20	1.72	0.360
DRGH875MT681	680	1	20	1.96	0.330
DRGH875MT821	820	1	20	2.56	0.300
DRGH875MT102	1000	1	20	2.94	0.270
DRGH875MT122	1200	1	20	4.04	0.240
DRGH875MT152	1500	1	20	4.70	0.220
DRGH875MT182	1800	1	20	5.05	0.200
DRGH875MT222	2200	1	20	6.25	0.180
DRGH875MT272	2700	1	20	8.72	0.160
DRGH875MT332	3300	1	20	10.60	0.150
DRGH875MT392	3900	1	20	14.20	0.140
DRGH875MT472	4700	1	20	16.70	0.120
DRGH875MT562	5600	1	20	18.70	0.110
DRGH875MT682	6800	1	20	21.80	0.100
DRGH875MT822	8200	1	20	28.70	0.093
DRGH875MT103	10000	1	20	33.00	0.084

Electrical Specifications DRGH895

Part Number	L (μ H)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH895MT100	10	100	20	0.04	2.600
DRGH895MT120	12	100	20	0.04	2.600
DRGH895MT150	15	100	20	0.05	2.100
DRGH895MT180	18	100	20	0.05	2.000
DRGH895MT220	22	100	20	0.06	1.700
DRGH895MT270	27	100	20	0.06	1.600
DRGH895MT330	33	100	20	0.07	1.400
DRGH895MT390	39	100	20	0.08	1.400
DRGH895MT470	47	100	20	0.10	1.300
DRGH895MT560	56	100	20	0.11	1.200
DRGH895MT680	68	100	20	0.14	1.100
DRGH895MT820	82	100	20	0.16	1.000
DRGH895MT101	100	1	20	0.19	0.900
DRGH895MT121	120	1	20	0.22	0.820
DRGH895MT151	150	1	20	0.27	0.740
DRGH895MT181	180	1	20	0.31	0.710
DRGH895MT221	220	1	20	0.38	0.640
DRGH895MT271	270	1	20	0.53	0.570
DRGH895MT331	330	1	20	0.61	0.510
DRGH895MT391	390	1	20	0.69	0.480
DRGH895MT471	470	1	20	0.89	0.430
DRGH895MT561	560	1	20	1.01	0.400
DRGH895MT681	680	1	20	1.18	0.350
DRGH895MT821	820	1	20	1.57	0.320
DRGH895MT102	1000	1	20	1.84	0.300
DRGH895MT122	1200	1	20	2.10	0.270
DRGH895MT152	1500	1	20	2.80	0.230
DRGH895MT182	1800	1	20	3.21	0.210
DRGH895MT222	2200	1	20	4.21	0.190
DRGH895MT272	2700	1	20	4.94	0.170
DRGH895MT332	3300	1	20	6.16	0.150
DRGH895MT392	3900	1	20	6.84	0.140
DRGH895MT472	4700	1	20	7.89	0.130
DRGH895MT562	5600	1	20	11.50	0.120
DRGH895MT682	6800	1	20	13.20	0.110
DRGH895MT822	8200	1	20	15.20	0.100
DRGH895MT103	10000	1	20	22.00	0.089
DRGH895MT123	12000	1	20	25.00	0.073
DRGH895MT153	15000	1	20	29.10	0.068
DRGH895MT183	18000	1	20	38.90	0.066
DRGH895MT223	22000	1	20	44.90	0.059
DRGH895MT273	27000	1	20	55.70	0.052
DRGH895MT333	33000	1	20	64.20	0.048
DRGH895MT393	39000	1	20	74.20	0.042
DRGH895MT473	47000	1	20	96.40	0.038

Electrical Characteristics – DRGH106

Part Number	L (μ H)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH106MT100	10	100	20	0.040	3.60
DRGH106MT120	12	100	20	0.044	3.30
DRGH106MT150	15	100	20	0.058	2.90
DRGH106MT180	18	100	20	0.064	2.70
DRGH106MT220	22	100	20	0.088	2.40
DRGH106MT270	27	100	20	0.100	2.20
DRGH106MT330	33	100	20	0.110	2.00
DRGH106MT390	39	100	20	0.140	1.80
DRGH106MT470	47	100	20	0.160	1.70
DRGH106MT560	56	100	20	0.190	1.50
DRGH106MT680	68	100	20	0.220	1.40
DRGH106MT820	82	100	20	0.290	1.30
DRGH106MT101	100	1	20	0.320	1.30
DRGH106MT121	120	1	20	0.380	1.20
DRGH106MT151	150	1	20	0.500	1.00
DRGH106MT181	180	1	20	0.560	0.84
DRGH106MT221	220	1	20	0.780	0.76
DRGH106MT271	270	1	20	0.920	0.69
DRGH106MT331	330	1	20	1.100	0.62
DRGH106MT391	390	1	20	1.300	0.57
DRGH106MT471	470	1	20	1.500	0.52
DRGH106MT561	560	1	20	1.900	0.48
DRGH106MT681	680	1	20	2.200	0.43
DRGH106MT821	820	1	20	2.600	0.40
DRGH106MT102	1000	1	20	3.200	0.36

Electrical Characteristics DRGH108

Part Number	L (μ H)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH108MT100	10	100	20	0.027	4.50
DRGH108MT120	12	100	20	0.031	4.10
DRGH108MT150	15	100	20	0.036	3.70
DRGH108MT180	18	100	20	0.049	3.40
DRGH108MT220	22	100	20	0.055	3.10
DRGH108MT270	27	100	20	0.062	2.80
DRGH108MT330	33	100	20	0.078	2.50
DRGH108MT390	39	100	20	0.087	2.30
DRGH108MT470	47	100	20	0.099	2.10
DRGH108MT560	56	100	20	0.130	1.90
DRGH108MT680	68	100	20	0.140	1.70
DRGH108MT820	82	100	20	0.160	1.60
DRGH108MT101	100	1	20	0.210	1.40
DRGH108MT121	120	1	20	0.240	1.30
DRGH108MT151	150	1	20	0.320	1.20
DRGH108MT181	180	1	20	0.350	1.10
DRGH108MT221	220	1	20	0.450	0.96
DRGH108MT271	270	1	20	0.610	0.87
DRGH108MT331	330	1	20	0.690	0.79
DRGH108MT391	390	1	20	0.780	0.72
DRGH108MT471	470	1	20	1.000	0.66
DRGH108MT561	560	1	20	1.200	0.60
DRGH108MT681	680	1	20	1.400	0.55
DRGH108MT821	820	1	20	1.800	0.50
DRGH108MT102	1000	1	20	2.100	0.45

Electrical Characteristics DRGH110

Part Number	L (μ H)	Test Freq (KHz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
DRGH110MT100	10	100	20	0.022	5.30
DRGH110MT120	12	100	20	0.023	4.90
DRGH110MT150	15	100	20	0.026	4.40
DRGH110MT180	18	100	20	0.033	4.00
DRGH110MT220	22	100	20	0.037	3.60
DRGH110MT270	27	100	20	0.048	3.30
DRGH110MT330	33	100	20	0.055	2.90
DRGH110MT390	39	100	20	0.073	2.70
DRGH110MT470	47	100	20	0.083	2.50
DRGH110MT560	56	100	20	0.092	2.30
DRGH110MT680	68	100	20	0.120	2.10
DRGH110MT820	82	100	20	0.140	1.90
DRGH110MT101	100	1	20	0.160	1.70
DRGH110MT121	120	1	20	0.200	1.50
DRGH110MT151	150	1	20	0.230	1.40
DRGH110MT181	180	1	20	0.310	1.30
DRGH110MT221	220	1	20	0.340	1.10
DRGH110MT271	270	1	20	0.400	1.00
DRGH110MT331	330	1	20	0.520	0.93
DRGH110MT391	390	1	20	0.650	0.86
DRGH110MT471	470	1	20	0.710	0.78
DRGH110MT561	560	1	20	1.000	0.71
DRGH110MT681	680	1	20	1.100	0.65
DRGH110MT821	820	1	20	1.300	0.59
DRGH110MT102	1000	1	20	1.700	0.53