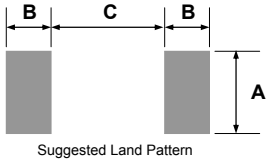
SERIES:

MGDQ4

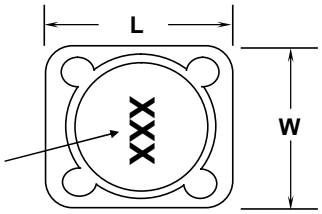
3003 9th Avenue SW
PO Box 50
Watertown, SD 57201
Toll free: 888-978-2638
Ph: 605-886-3326
Fax: 605-886-8995

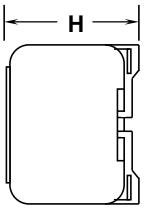
BABT certified ISO 9001

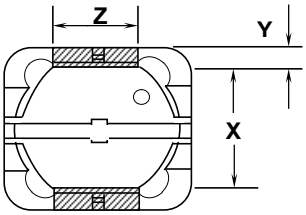
Low Profile, High Current Power Inductors



Suggested Land Pattern







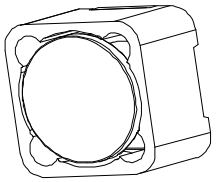
Series Number	Maximum Dimensions				Reference Dimensions					
	Units	L	W	H	X	Y	Z	A	B	C
MGDQ4	inches	0.295"	0.295"	0.177"	0.197"	0.047"	0.079"	0.084"	0.052"	0.189"
	[mm]	[7.50]	[7.50]	[4.50]	[5.00]	[1.20]	[2.00]	[2.13]	[1.33]	[4.80]

Features:

- High energy storage and low resistance
- Reliable surface mounting, flat top for pick and place.
- Smaller real estate than other common inductors.
- Robust temperature deflection to prevent damage during solder reflow.
- Tape and Reel mechanical specifications available upon request.
- Operating Temperature -40°C to +85°C.
- Highly resistive core for EMI suppression applications.

Notes:

- Inductance measured at 100kHz and 250mVrms.
- Isat is a maximum applied AC + DC current.
- Isat current is applied to produce a typical 35% drop in nominal inductance.
- Tolerance suffix of M = ±20%.
- DCR is a maximum at 20°C.

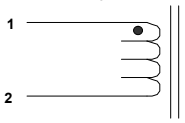


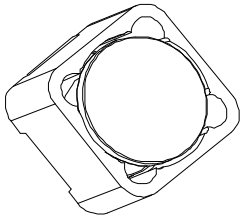
Contact CoEv for additional inductance values

RoHS Compliant

260°C Maximum reflow temperature per J-STD020
Terminal Plating is Gold Flash over Ni

Schematic Diagram





MGDQ4				
Lead Free Part Number	L µH	DCR Ω	I_{SAT} A	Tolerance Suffix
MGDQ4-00003	0.43	0.017	8.50	M
MGDQ4-00004	10	0.049	1.84	M
MGDQ4-00005	12	0.058	1.71	M
MGDQ4-00006	15	0.081	1.47	M
MGDQ4-00007	18	0.091	1.31	M
MGDQ4-00008	22	0.110	1.23	M
MGDQ4-00009	27	0.150	1.12	M
MGDQ4-00010	33	0.170	0.96	M
MGDQ4-00011	39	0.230	0.91	M
MGDQ4-00012	47	0.260	0.88	M
MGDQ4-00013	56	0.350	0.75	M
MGDQ4-00014	68	0.380	0.69	M
MGDQ4-00015	82	0.430	0.61	M
MGDQ4-00016	100	0.610	0.60	M
MGDQ4-00017	120	0.660	0.52	M
MGDQ4-00018	150	0.880	0.46	M
MGDQ4-00019	180	0.980	0.42	M
MGDQ4-00020	220	1.170	0.36	M
MGDQ4-00021	270	1.640	0.34	M
MGDQ4-00022	330	1.860	0.32	M
MGDQ4-00023	390	2.850	0.29	M
MGDQ4-00024	470	3.010	0.26	M
MGDQ4-00025	560	3.620	0.23	M
MGDQ4-00026	680	4.630	0.22	M
MGDQ4-00027	820	5.200	0.20	M
MGDQ4-00028	1000	6.000	0.18	M

Specifications subject to change.