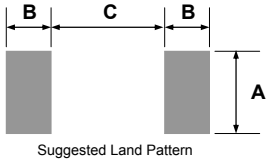
SERIES:

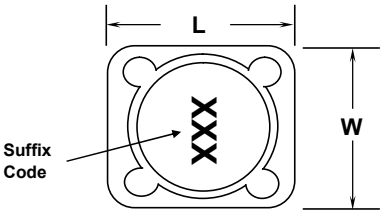
MGDQ3

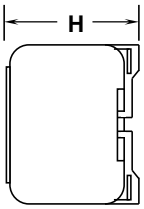
3003 9th Avenue SW
PO Box 50
Watertown, SD 57201
Toll free: 888-978-2638
Ph: 605-886-3326
Fax: 605-886-8995

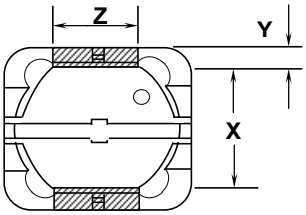
BABT certified ISO 9001

Low Profile, High Current Power Inductors









Series Number	Maximum Dimensions				Reference Dimensions					
	Units	L	W	H	X	Y	Z	A	B	C
MGDQ3	inches	0.295"	0.295"	0.157"	0.197"	0.047"	0.079"	0.084"	0.052"	0.189"
	[mm]	[7.50]	[7.50]	[4.00]	[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.

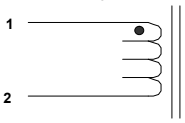
Notes:

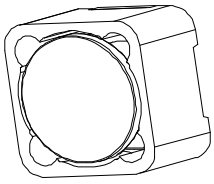
- Inductance measured at 100kHz and 250mVrms.
- Isat is a maximum applied AC + DC current.
- Isat current is applied to produce a typical 35% drop in nominal inductance.
- Tolerance suffix of M = ±20%.
- DCR is a maximum at 20°C.

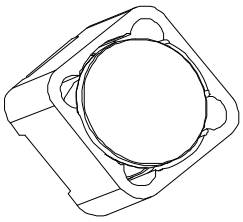
Pb RoHS Compliant

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

Schematic Diagram







Contact CoEv for additional inductance values

MGDQ3				
Lead Free Part Number	L µH	DCR Ω	I_{SAT} A	Tolerance Suffix
MGDQ3-00001	1.0	0.0093	7.97	M
MGDQ3-00002	10	0.072	1.68	M
MGDQ3-00003	12	0.098	1.52	M
MGDQ3-00004	15	0.130	1.33	M
MGDQ3-00005	18	0.140	1.20	M
MGDQ3-00006	22	0.190	1.07	M
MGDQ3-00007	27	0.210	0.96	M
MGDQ3-00008	33	0.240	0.91	M
MGDQ3-00009	39	0.320	0.77	M
MGDQ3-00010	47	0.360	0.76	M
MGDQ3-00011	56	0.470	0.68	M
MGDQ3-00012	68	0.520	0.61	M
MGDQ3-00013	82	0.690	0.57	M
MGDQ3-00014	100	0.790	0.50	M
MGDQ3-00015	120	0.890	0.49	M
MGDQ3-00016	150	1.270	0.43	M
MGDQ3-00017	180	1.450	0.39	M
MGDQ3-00018	220	1.650	0.35	M
MGDQ3-00019	270	2.310	0.32	M
MGDQ3-00020	330	2.620	0.28	M
MGDQ3-00021	390	2.940	0.26	M
MGDQ3-00022	470	4.180	0.24	M
MGDQ3-00023	560	4.670	0.22	M
MGDQ3-00024	680	5.730	0.19	M
MGDQ3-00025	820	6.540	0.18	M
MGDQ3-00026	1000	9.440	0.16	M

Specifications subject to change.

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