

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

TE Connectivity
MGDQ5-00005

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of TE Connectivity: Excellent Integrated System Limited

Datasheet of MGDQ5-00005 - FIXED IND 10UH 4A 25 MOHM SMD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

SERIES:

MGDQ5



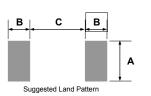
Watertown, SD 57201 Toll free: 888-978-2638 Ph: 605-886-3326

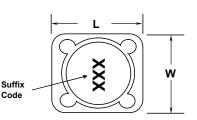
3003 9th Avenue SW PO Box 50

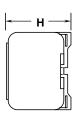
Fax: 605-886-8995

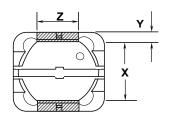












Series	Maximum Dimensions			Reference Dimensions						
Number	Units	L	W	Н	Х	Υ	Z	Α	В	С
MGDQ5	inches	0.504"	0.504"	0.236"	0.315"	0.087"	0.197"	0.202"	0.084"	0.307"
III OD QU	[mm]	[12.80]	[12.80]	[6.00]	[8.00]	[2.20]	[5.00]	[5.13]	[2.13]	[7.80]

- 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:

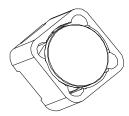
- Inductance measured at 100kHz and 250mVrms.
 Isat is a maximum applied AC + DC current.
- Isat current is applied to produce a typical 35% drop in nominal inductance.
- Tolerance suffix of M = ±20%
- DCR is a maximum at 20°C.



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







Lead Free	L	DCR	I _{SAT}	Tolerance
Part Number	μH	Ω	Α	Suffix
MGDQ5-00001	1.5	0.003	16.00	M
MGDQ5-00002	2.4	0.009	13.50	M
MGDQ5-00003	3.3	0.007	12.70	M
MGDQ5-00004	4.7	0.018	10.00	M
MGDQ5-00005	10	0.025	4.00	M
MGDQ5-00006	12	0.027	3.50	M
MGDQ5-00007	15	0.030	3.30	M
MGDQ5-00008	18	0.034	3.00	M
MGDQ5-00009	22	0.036	2.80	M
MGDQ5-00010	27	0.051	2.30	M
MGDQ5-00011	33	0.057	2.10	M
MGDQ5-00012	39	0.068	2.00	M
MGDQ5-00013	47	0.075	1.80	M
MGDQ5-00014	56	0.110	1.70	M
MGDQ5-00015	68	0.120	1.50	M
MGDQ5-00016	82	0.140	1.40	M
MGDQ5-00017	100	0.160	1.30	M
MGDQ5-00018	120	0.170	1.10	M
MGDQ5-00019	150	0.230	1.00	M
MGDQ5-00020	180	0.290	0.90	M
MGDQ5-00021	220	0.400	0.80	М
MGDQ5-00022	270	0.460	0.75	M
MGDQ5-00023	330	0.510	0.68	M
MGDQ5-00024	390	0.690	0.65	M
MGDQ5-00025	470	0.770	0.58	M
MGDQ5-00026	560	0.860	0.54	M
MGDQ5-00027	680	1.200	0.48	M
MGDQ5-00028	820	1.340	0.43	M
MGDQ5-00029	1000	1.530	0.40	M

MGDQ5



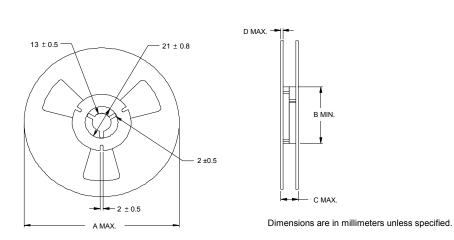
Specifications subject to change

Call Toll Free: 888-978-2638 Website: www.tycopowercomponents.com

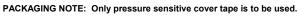
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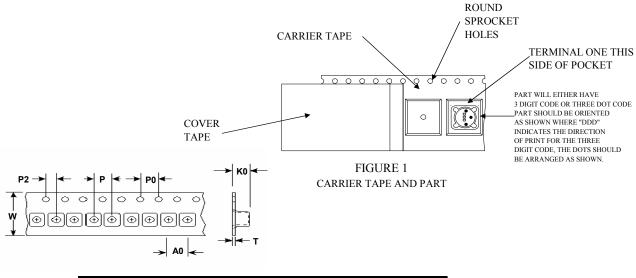
Datasheet of MGDQ5-00005 - FIXED IND 10UH 4A 25 MOHM SMD

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Series	Reel dimensions					Reel	Carton (Box)	Packaging
Number	Units	Α	В	С	D	Qty	Qty.	Specification
MGDQ5	in.	12.99"	3.94"	1.16"	0.098"	650	3250	90-0053
WIGDQS	[mm]	[330]	[100.0]	[29.5]	[2.50]	650	650 3250	30-0055





Series	W ±0.3	P ±0.1	P0 ±0.1	P2 ±0.1	K0 ±0.05	T ±0.05	A0 ±0.1
MGDQ5	24.0	16.0	4.00	2.00	6.30	0.35	12.6



Customer Packaging	Specifications
For Print Distribution t	to Customers

Series	Revision
MGDQ5	Α0
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Datasheet of MGDQ5-00005 - FIXED IND 10UH 4A 25 MOHM SMD

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Item	Specification	Test Me	thod/Condition	
Environmental Static Humidity	After exposure part remains within specified electrical parameters for L, Q and DCR.		for 60 minutes. Expose part C with 90 to 95% R.H. for 24	
Storage Life	After exposure part remains within specified electrical parameters for L, Q and DCR.		nvironment of 85°C 85% R.h e allow parts to dry for 4 hou ken.	
Temperature Cycle	After exposure part remains within specified electrical parameters for L, Q and DCR.	30 minutes exposure 30 minutes exposure		
Temperature Shock	After exposure part remains within specified electrical parameters for L, Q and DCR.	10 cycles (Air to Air) 1 cycle shall consist of: 30 minutes exposure to -55°C 30 minutes exposure to +125°C 15 seconds maximum transition between temperature		
IR Reflow	10 seconds at 260°C max.		pass all electrical specification ible signs of solder flow or le	
General				
Storage Temperature Range	-40°C to +85°C			
Operating Temperature Range	-40°C to +85°C			
Flammability	IEC 695-2-2	Withstands needle-fla	ame test	
Other				
Vibration	After exposure part remains within specified electrical parameters for L, Q and DCR.	7 - 30 Hz constant ac 31 - 50 Hz constant c	of the following: placement of 0.75 inches, 5 poeleration of 1.5 Gs, 10 min displacement of 0.33 inches, acceleration of 1.2 Gs, 10 r	utes 5 minutes
Mechanical Shock	After exposure part remains within specified electrical parameters for L, Q and DCR.	MGDQ2 Series - 500 MGDQ3 Series - 500 MGDQ4 Series - 500 MGDQ5 Series - 500	Gs per axis, 2 directions Gs per axis, 2 directions	
Solderability	Wetting shall cover 90% minimum of each termination	Dip pads in RMA flux, 63/37 solder (Sn/Pb) at 232°C for 5 seconds ±2 seconds.		
Component Adhesion (Push Test)	Component shall withstand 6 lb. push force minimum without delaminating from mounting surface.	Apply and measure for	orce with a digital force gau	ge set.
Resistance to Solvent		Withstands 6 minutes	s of alcohol.	
		Withstands 3 minutes	s forced spray Freon TMS	
Chemical Ionic Contamination	Conductivity: pH: Chlorides: Sodium: Potassium:	11 µOhms/cm maxim 5.5 to 9 65 ppm maximum 20 ppm maximum 10 ppm maximum	PÓ RoHS Cor	mpliant
			Series	Revision
For Pri	nt Distribution to Custon	ners	MGDQ5	A0

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