

Excellent Integrated System Limited

Stocking Distributor

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

TE Connectivity
MGDU5-00008

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



Distributor of TE Connectivity: Excellent Integrated System Limited

Datasheet of MGDU5-00008 - FIXED IND 10UH 4.3A 31 MOHM SMD

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

SERIES:

MGDU5



PO Box 50

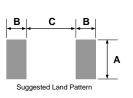
Watertown, SD 57201 Toll free: 888-978-2638

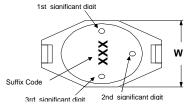
3003 9th Avenue SW

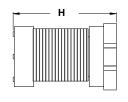
Ph: 605-886-3326 Fax: 605-886-8995

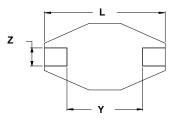












Series	Maximum Dimensions				Reference Dimensions				
Number	Units	L	W	Н	Υ	Z	Α	В	С
MGDU5	inches	0.730"	0.600"	0.291"	0.500"	0.100"	0.110"	0.115"	0.490"
WGDG3	[mm]	[18.54]	[15.24]	[7.40]	[12.70]	[2.54]	[2.79]	[2.92]	[12.45]

Features:

- High energy storage and low resistance
 Ideal for DC-DC step-up or step-down conversion.
- Reliable surface mounting, flat top for pick and place mounting
 Robust temperature deflection to prevent
- damage during solder reflow.

 Operating Temperature -40°C to +85°C.

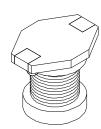
(Pi) RoHS Compliant

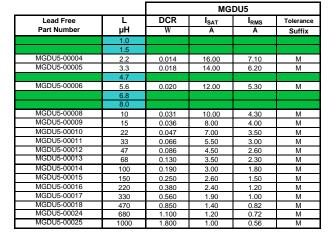
Terminal Plating is Gold Flash over Ni 260°C Maximum reflow temperature per J-STD020

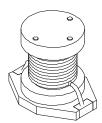
Schematic Diagram

Notes:

- Inductance measured at 100kHz, 100mVrms at 20°C.
- DCR (DC resistance) are maximum @ 20°C.
- Irms is the current applied to produce a typical 30°C
- temperaturer rise from nominal inductance. Isat is a maximum applied AC + DC current.
- Isat is the current applied to produce a typipcal 10% drop
- in nominal inductance
- Tolerance suffix of M = ±20%







Contact CoEv for additional inductance values

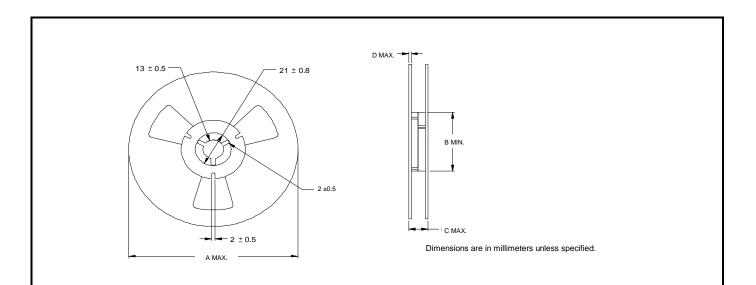
Specifications subject to change

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

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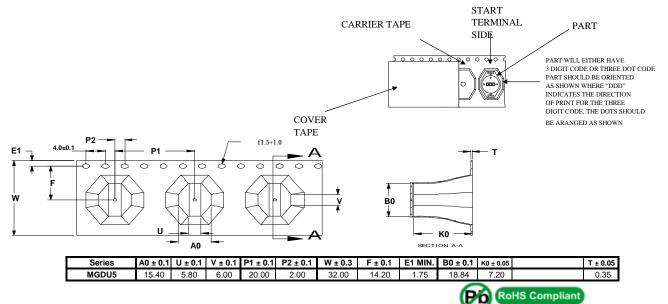
Datasheet of MGDU5-00008 - FIXED IND 10UH 4.3A 31 MOHM SMD

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Series	Reel dimensions					Reel	Carton (Box)	Packaging
Number	Units	Α	В	С	D	Qty	Qty.	Specification
MGDU5	in.	14.17"	3.94"	0.88"	0.094"	250	1000	90-0065
1110000	[mm]	[360]	[100.0]	[22.4]	[2.40]	230	1300	30-3003

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



Customer Packaging Specifications
For Print Distribution to Customers

Series	Revision			
MGDU5	A0			
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Distributor of TE Connectivity: Excellent Integrated System Limited Datasheet of MGDU5-00008 - FIXED IND 10UH 4.3A 31 MOHM SMD

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Item	Specification	Test Method/Condition		
Environmental Static Humidity	After exposure part remains within specified electrical parameters for L, Q and DCR.	Expose parts to an environment of +50°C with 90 to 95% R.H. for 100 hours. After exposure, allow parts to dry for 2 hours before measurements are taken.		
Storage Life	After exposure part remains within specified electrical parameters for L, Q and DCR.	Subject parts to an environment of +50°C 90 to 100% R.H. for 46 to 50 hours. After exposure, allow parts to dry for 2 hours before measurements are taken.		
Moisture Resistance	After exposure, part shall not have a shorted or open winding.	Per MIL-STD 202 Method 106, ten 24 hour cycles at +25°C to +65°C at 80 to 95% R.H. During any of the first 9 cycles, inductors are revolved from the chamber and exposed to -10°C for 3 hours. Allow parts to dry for 2 hours before measurements are taken.		
Temperature Cycle	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 +85°C 30 minutes exposure to -40°C Allow 20 minutes transition between extremes.		
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 -45°C 30 minutes exposure to +125°C 15 seconds maximum transition between temperatures		
General				
Storage Temperature Range	-40°C to +85°C			
Operating Temperature Range	-40°C to +85°C			
Flammability	IEC 695-2-2	Withstands needle-flame test		
Other				
Vibration	After exposure part remains within specified electrical parameters for L, Q and DCR.	Inductors shall be randomly vibrated per NAVMAT P9492 profile. Samples shall be subjected to 0.04G/Hz for a minimum of 15 minutes per axis, for each of the three axes.		
Mechanical Shock	After exposure part remains within specified electrical parameters for L, Q and DCR.	Test per MIL-STD 202 method 213 test condition A, test mounted samples 3 axes, 6 times, totaling 18 shocks. (50Gs, 11ms, half-sine).		
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)	4 pounds	Apply and measure force with a digital force gauge set.		
Resistance to Solvent	No sign of degradation in appearance or marking detail.	Withstands 6 minutes of alcohol. Withstands 3 minutes forced spray Freon TMS		
Load Life	After exposure, part shall not have a shorted or open winding.	Parts to be stored at 110°C for 1000 hours with rated current applied. Parts to be tested at: start, 500 and 1000 hours. Allow 2 hours at room temperature before testing.		
		Po RoHS Compliant		

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For Print Distribution to Customers	MGE

Series	Revision	
MGDU5	A0	
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