

Excellent Integrated System Limited

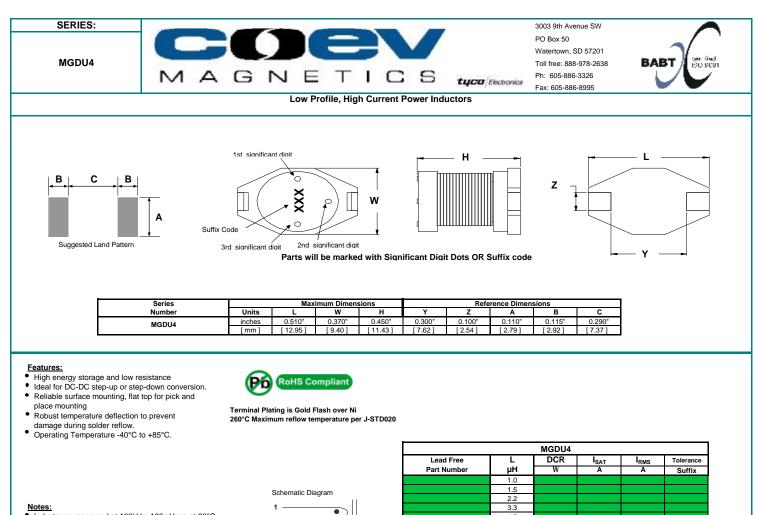
Stocking Distributor

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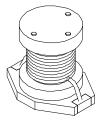
TE Connectivity MGDU4-00002

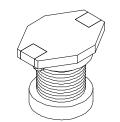
For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





- 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
- nominal inductance Tolerance suffix of $M = \pm 20\%$.





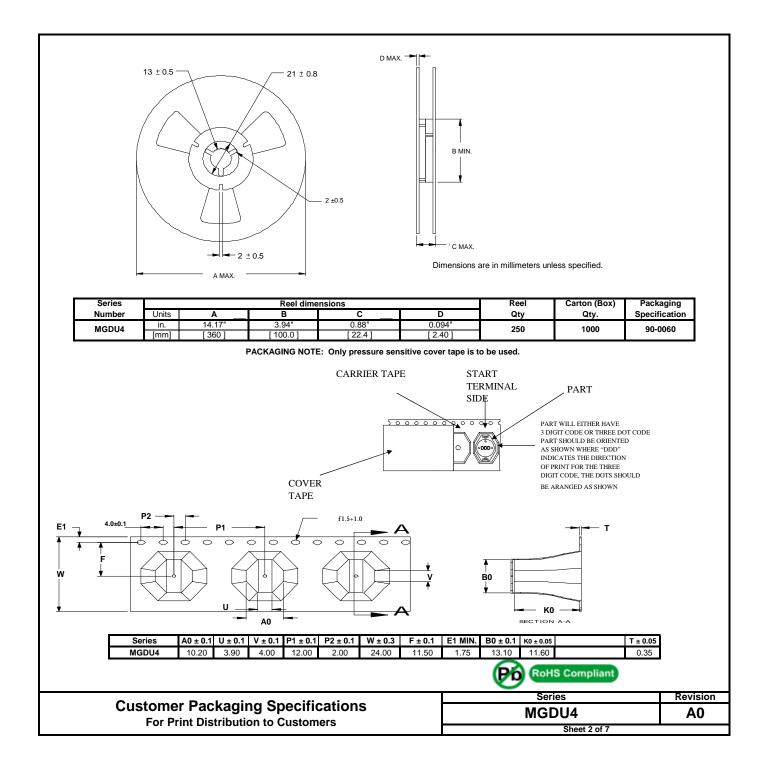
MGDU4								
Lead Free	L	DCR W	I _{SAT} A	I _{RMS} A	Tolerance Suffix			
Part Number	μH							
	1.0							
	1.5							
	2.2							
	3.3							
	4.7							
	5.6							
MGDU4-00001	6.8	0.015	10.00	5.00	М			
	8.0							
MGDU4-00002	10	0.040	8.00	3.50	М			
MGDU4-00003	15	0.050	7.00	3.00	М			
MGDU4-00004	22	0.070	5.50	2.50	М			
MGDU4-00005	33	0.080	4.00	2.00	М			
MGDU4-00006	47	0.110	3.80	1.60	М			
MGDU4-00007	68	0.170	3.00	1.20	М			
MGDU4-00008	100	0.220	2.50	1.20	М			
MGDU4-00009	150	0.340	2.00	0.90	М			
MGDU4-00010	220	0.440	1.60	0.70	М			
MGDU4-00011	330	0.700	1.20	0.60	M			
MGDU4-00012	470	0.950	1.00	0.30	M			
MGDU4-00013	680	1.200	1.00	0.20	М			
MGDU4-00014	1000	2.000	0.80	0.10	М			

Contact CoEv for additional inductance values

Specifications subject to change

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







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	Dip pads in RMA flux, 63/37 solder (Sn/Pb) at 232°C for 5				
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.				
				pliant		
			Series	Revision		
For Print Distribution to Customers			MGDU4	A0		

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