SERIES:

MGDH2

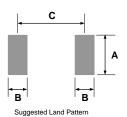


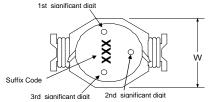
3003 9th Avenue SW PO Box 50 Watertown, SD 57201 Toll free: 888-978-2638

**tuco** Flectronics Fax: 605-886-8995 Ph: 605-886-3326

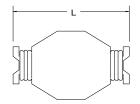












Parts will be marked with Significant Digit Dots OR Suffix code

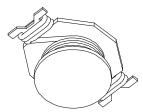
Series	Maximum Dimensions				Reference Dimensions			
Number	Units	L	W	Н	Α	В	С	
MGDH2	inches	0.522"	0.392"	0.250"	0.160"	0.060"	0.400"	
III ODI IZ	[ mm ]	[ 13.26 ]	[ 9.96 ]	[ 6.35 ]	[ 4.06 ]	[ 1.52 ]	[ 10.16 ]	

- 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 100mVrms.
  Isat is a maximum applied AC + DC current.
  Isat current is applied to produce a typical 10% drop in nominal inductance.
- Irms current is applied to produce a typical 40°C termperature rise.
- Tolerance suffix of M = ±20%.
- DCR is a maximum at 20°C.

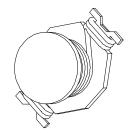


Contact CoEv for additional inductance values



Terminal Plating is Hot-dipped SnAgCu 260°C Maximum reflow temperature per J-STD020

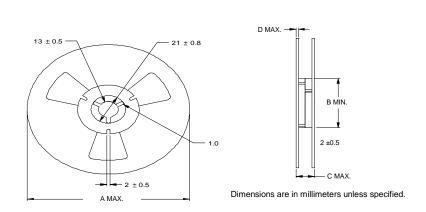




		MGDH2				
Lead-free Part Number	L µH	DCR W	I <sub>SAT</sub> A	I <sub>RMS</sub>	Tolerance Suffix	
MGDH2-00001	0.33	0.002	20.0	16.0	М	
	0.56					
MGDH2-00002	0.68	0.005	13.0	12.0	M	
	0.78					
MGDH2-00003	1.0	0.006	11.0	10.0	M	
	1.2					
MGDH2-00004	1.5	0.008	9.0	9.0	M	
MGDH2-00005	2.2	0.011	7.8	7.4	M	
MGDH2-00006	2.7	0.012	7.0	6.6	M	
MGDH2-00007	3.3	0.014	6.4	5.9	M	
	3.9					
MGDH2-00008	4.7	0.018	5.4	4.8	M	
	6.0					
MGDH2-00009	6.8	0.035	3.6	4.5	M	
	7.8					
MGDH2-00010	10	0.040	3.30	4.50	M	
MGDH2-00011	15	0.060	2.40	3.50	M	
MGDH2-00012	22	0.080	2.00	2.80	M	
MGDH2-00013	33	0.150	1.70	2.10	M	
MGDH2-00014	47	0.280	1.40	1.70	M	
MGDH2-00015	68	0.300	1.20	1.50	M	
MGDH2-00016	100	0.400	0.95	1.20	M	

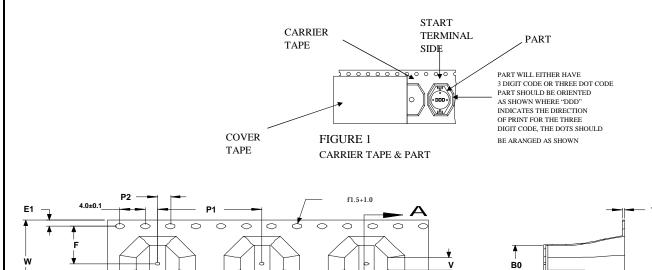
Specifications subject to change

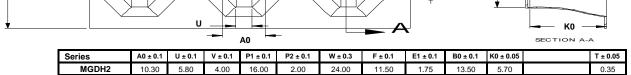
Call Toll Free: 888-978-2638 Website: www.tycopowercomponents.com



Series			Reel dime	ensions	Reel	Carton (Box)	Packaging	
Number	Units	Α	В	С	D	Qty	Qty.	Specification
MGDH2	in.	14.17"	3.94"	1.20"	0.098"	700	3500	90-0055
WIGDIIZ	[mm]	[ 360 ]	[ 100.0 ]	[ 30.4 ]	[ 2.50 ]	700	3300	30-0033

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





Series	A0 ± 0.1	U ± 0.1	V ± 0.1	P1 ± 0.1	P2 ± 0.1	W ± 0.3	F ± 0.1	E1 ± 0.1	B0 ± 0.1	$K0 \pm 0.05$	T ± 0.05
MGDH2	10.30	5.80	4.00	16.00	2.00	24.00	11.50	1.75	13.50	5.70	0.35

Customer Packaging Specifications For Print Distribution to Customers	Series	Revision
	MGDH2	Α0
	Sheet 2 of 7	

RoHS Compliant

Item	Specification	Test Method/Condition
Environmental		
Static Humidity	After exposure part remains within specified electrical parameters for L, Q and DCR.	Precondition at 25°C for 60 minutes. Expose parts to an environment of +40°C with 90 to 95% R.H. for 240 hours.
Storage Life	After exposure part remains within specified electrical parameters for L, Q and DCR.	Subject parts to an environment of 85°C 85% R.H. for 168 hours. After exposure allow parts to dry for 4 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 -55°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.	<ul> <li>1 cycle of 30 minutes of the following:</li> <li>5 - 7 Hz constant displacement of 0.75 inches, 5 minutes</li> <li>7 - 30 Hz constant acceleration of 1.5 Gs, 10 minutes</li> <li>31 - 50 Hz constant displacement of 0.33 inches, 5 minutes</li> <li>50 - 500 Hz constant acceleration of 1.2 Gs, 10 minutes</li> </ul>
Mechanical Shock	After exposure part remains within specified electrical parameters for L, Q and DCR.	MGDH1 Series - 2000 Gs per axis, 2 directions MGDH2 Series - 2000 Gs per axis, 2 directions MGDH3 Series - 2000 Gs per axis, 2 directions
Solderability	Wetting shall cover 90% minimum of	Dip pads in RMA flux, 63/37 solder (Sn/Pb) at 232°C for 5 seconds ±2
	each termination	seconds.
Component Adhesion (Push Test)	Component shall withstand 6 lb. push force minimum without delaminating from mounting surface.	Apply and measure force with a digital force gauge set.
Resistance to Solvent		Withstands 6 minutes of alcohol.
		Withstands 3 minutes forced spray Freon TMS
Chemical		
Ionic Contamination	Conductivity:	11 μOhms/cm maximum
	pH: Chlorides:	5.5 to 9 65 ppm maximum
	Sodium:	20 ppm maximum
	Potassium:	10 ppm maximum

<b>Pó</b> RoHS Compliant	
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**For Print Distribution to Customers** 

Series	Revision		
MGDH2	A0		
Sheet 3 of 7			