

- 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 ٠ 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 $M = \pm 20\%$. ٠ DCR is a maximum at 20°C.



Contact CoEv for additional inductance values

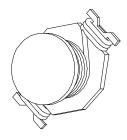
(Pb) **RoHS** Compliant

[mm]

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

[9.96



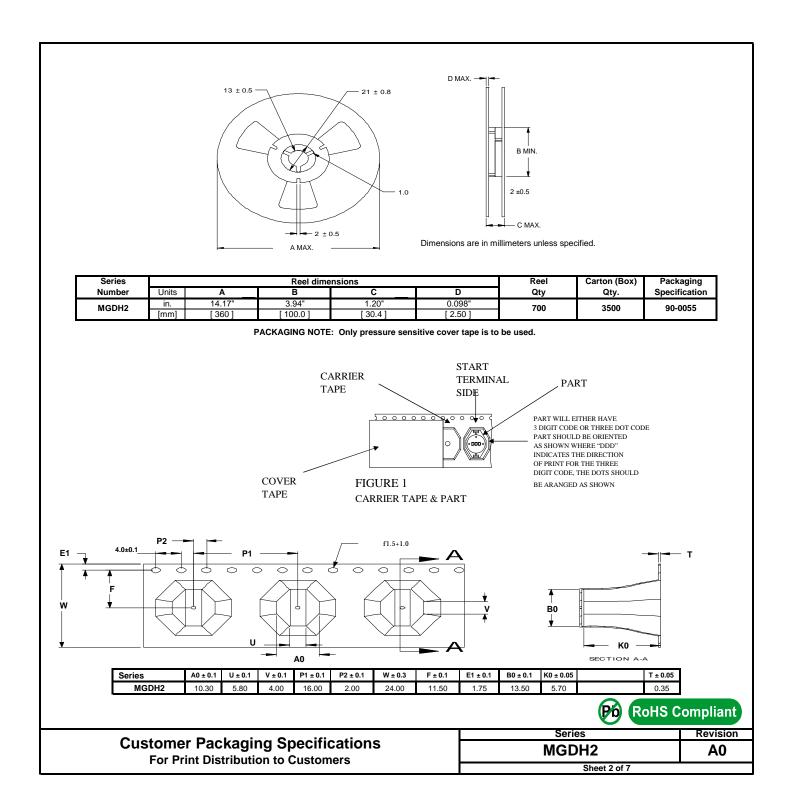


		MGDH2			
Lead-free Part Number	L µH	DCR W	I _{SAT} A	I _{RMS}	Tolerance Suffix
MGDH2-00001	0.33	0.002	20.0	16.0	М
	0.56				
MGDH2-00002	0.68	0.005	13.0	12.0	М
	0.78				
MGDH2-00003	1.0	0.006	11.0	10.0	М
	1.2				
MGDH2-00004	1.5	0.008	9.0	9.0	М
MGDH2-00005	2.2	0.011	7.8	7.4	М
MGDH2-00006	2.7	0.012	7.0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

[1.52]

Specifications subject to change

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



Item	Item Specification		Test Method/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.	Subject parts to an environment of 85°C 85% R.H. for hours. After exposure allow parts to dry for 4 hours I 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-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 d	of the following: blacement of 0.75 inches, 5 celeration of 1.5 Gs, 10 min lisplacement of 0.33 inches, acceleration of 1.2 Gs, 10 n	utes 5 minutes	
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 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 force with a digital force gauge set.			
Resistance to Solvent		Withstands 6 minutes 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	um		
			Po RoHS Con	npliant	
	Series	Revision			
For Pri	ners	MGDH2	A0		
			Sheet 3 of 7		