

- 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 ٠ available upon request.
- Operating Temperature -40°C to +85°C. Highly resistive core for EMI suppression •
- applications. ٠ Lead Free RoHS compliant.

## Notes:

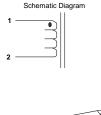
- Inductance measured at 100kHz and 250mVrms.
- Isat is a maximum applied AC + DC current.
  Isat current is applied to produce a typical 35%
- drop in nominal inductance.
- Tolerance suffix of  $M = \pm 20\%$ ٠ DCR is a maximum at 20°C.

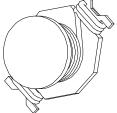


Contact CoEv for additional inductance values

Po **RoHS** Compliant

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

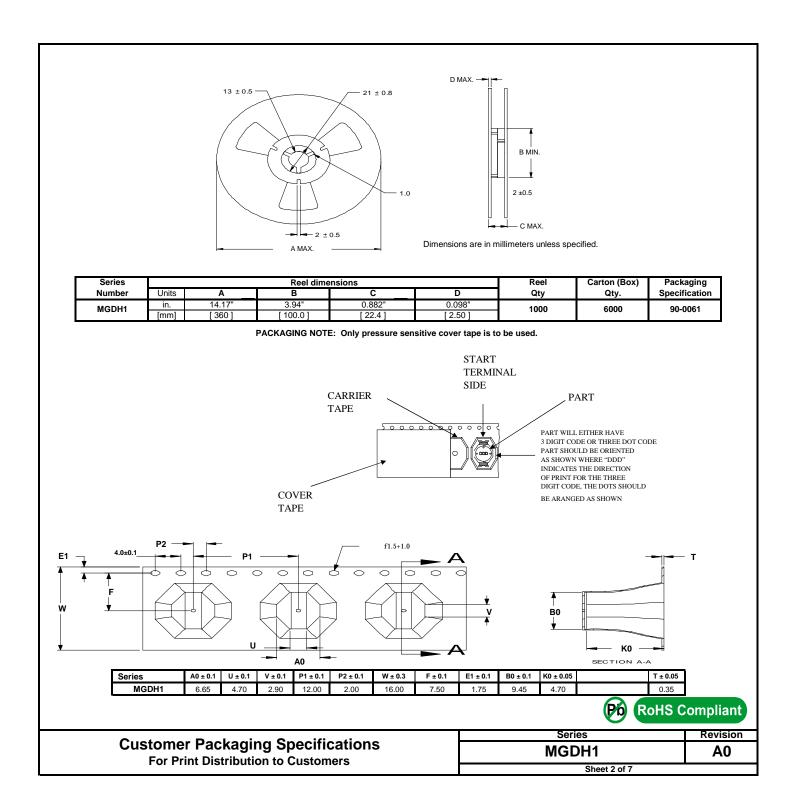




			MGDH1				
Lead free Part Number	L µH	DCR <sup>2</sup> W	I <sub>SAT</sub> <sup>3</sup> A	I <sub>RMS</sub> <sup>5</sup>	Tolerance Suffix <sup>6</sup>		
Fart Number	<u> </u>	W	A		Sumx		
	0.33	0.010	77	0.00			
MGDH1-00001	0.56	0.010	7.7	6.00	М		
	0.68						
	1.0						
		0.047	5.0	4.40			
MGDH1-00002	1.2	0.017	5.3	4.40	М		
MODULA AGAGA	1.5						
MGDH1-00003	2.2	0.035	3.5	3.10	M		
	2.7						
	3.3						
	3.9						
MGDH1-00004	4.7	0.054	2.6	2.20	M		
	6.0						
	6.8						
	7.8						
MGDH1-00005	10	0.111	1.90	1.50	М		
MGDH1-00006	15	0.170	1.50	1.20	М		
MGDH1-00007	22	0.250	1.20	1.00	M		
MGDH1-00008	33	0.370	0.99	0.82	М		
MGDH1-00009	47	0.470	0.87	0.72	М		
	68						
	100						

Specifications subject to change

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Item	Specification	Test M	ethod/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.			
	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.	30 minutes exposure 30 minutes exposure			
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 o	of the following: blacement of 0.75 inches, 5 cceleration of 1.5 Gs, 10 min displacement 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 for	orce with a digital force gaug	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	ium		
			Po RoHS Cor	npliant	
				Revision	
For Print Distribution to Customers			MGDH1	<b>A0</b>	
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