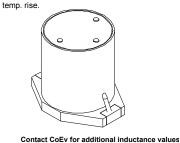


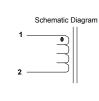
- Features:High energy storage and low resistance
- Reliable surface mounting, flat top for pick
- and place. Smaller real estate than other common
- inductors. Robust temperature deflection to prevent
- damage during solder reflow. Tape and Reel mechanical specifications
- available upon request.
- Operating Temperature -40°C to +85°C.

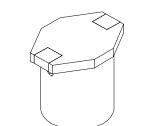
- Notes:
 Inductance measured at 100kHz and 250mVrms.
- Isat is a maximum applied AC + DC current.
- Isat current is applied to produce a typical 10%
- drop in nominal inductance. Irms current is applied to produce a typical 40°C temperature rise. Tolerance suffix of M = ±20%.
- DCR is a maximum at 20°C. Irms is applied current to produce a typical 40°





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

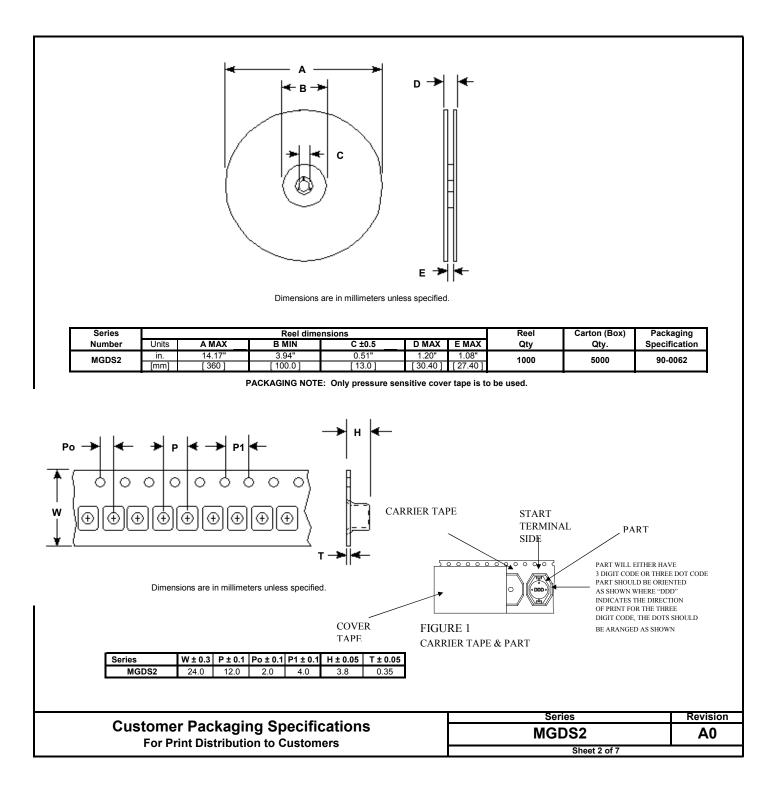




		MGDS2			
Lead Free Part Number	L		I _{SAT}	I _{RMS}	Tolerance
Part Number	μH	52	A	A	Suffix
NODOS SSSS	5.0	0.000	4 70	4 70	
MGDS2-00001	5.0	0.080	1.70	1.70	M
MGDS2-00002	7.5	0.400	1.40	4.40	
WGD32-00002	7.5	0.100	1.40	1.40	М
MGDS2-00003	40	0.405	4.00	4.00	
MGDS2-00003 MGDS2-00004	10	0.165	1.20	1.20	M
MGDS2-00004	12	0.172	1.10	1.10	M
MGDS2-00005 MGDS2-00006	15	0.181	1.00	1.00	M
MGDS2-00006 MGDS2-00007	18	0.190	0.90	0.90	M
MGDS2-00007 MGDS2-00008	22	0.250	0.80	0.80	M
	27	0.270	0.70	0.70	M
MGDS2-00009	33	0.300	0.65	0.65	M
MGDS2-00010 MGDS2-00011	39	0.380	0.60	0.60	M
MGDS2-00011 MGDS2-00012	47	0.580	0.55	0.55	M
	56	0.620	0.50	0.50	M
MGDS2-00013	68	0.920	0.45	0.45	M
MGDS2-00014	82	0.980	0.40	0.40	М

Specifications subject to change

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ltem	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 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, inductor 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				
Range	-40°C to +85°C			
Operating	-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 second		
Component Adhesion	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		
		Series Revision		

For Print Distribution to Customers MGDS2 Sheet 3 of 3

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