

# LOW LOSS POWER INDUCTORS

for PFC Boost Applications



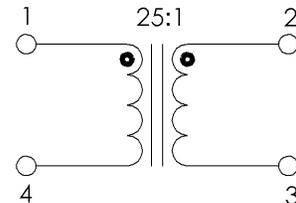
- Construction:** Toroidal/Molded/Gull wing terminals
- Height:** .45 inch maximum
- Current Rating:** Up to 2.5 peak
- Inductance Range:** .24 mH to 1.5 mH
- Environmental:** Superior vibration and shock resistance

These rugged inductors are ideal for power factor correction (PFC) boost applications operating in continuous conduction mode (CCM). The low loss, distributed gap core is the optimum choice for low EMI operation up to 500 KHz. The main winding is rated for 450 VDC with an auxiliary winding that can be used for Zero Current Detection (ZCD). The wound toroid is insert-molded in a compact, low profile package with heavy duty gull wing terminals for use in demanding environments such as marine, military and aerospace.

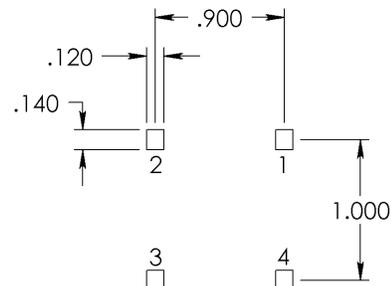
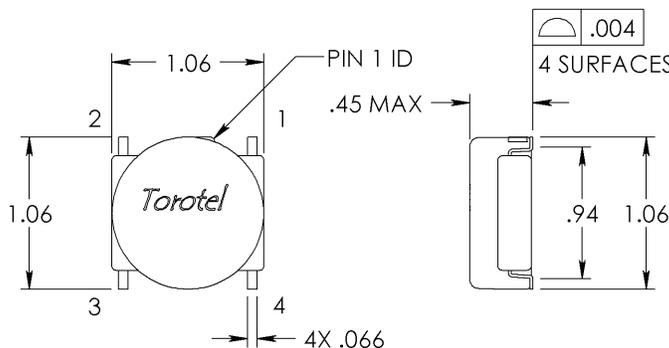
Part No.	L mH at I peak	I peak amps	L mH @ ADC	DCR $\Omega$ max
SGB5155	1.50	1.00	2.00	1.70
SGB5105	1.00	1.25	1.50	1.10
SGB5724	0.72	1.50	1.00	0.60
SGB5534	0.53	1.50	0.70	0.40
SGB5414	0.41	1.75	0.55	0.28
SGB5304	0.30	2.00	0.43	0.20
SGB5244	0.24	2.50	0.35	0.14

Notes:

1. All measurements taken at 20° C.
2. Operating temperature is -55° C to 155° C.
3. Inductance tested at .1 vrms, 10 KHz.
4. I peak is the peak line current plus ripple.



## Mechanical



RECOMMENDED PAD LAYOUT

DIMENSIONS ARE IN INCHES .XX =  $\pm .02$   
 .XXX =  $\pm .005$

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