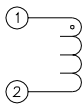
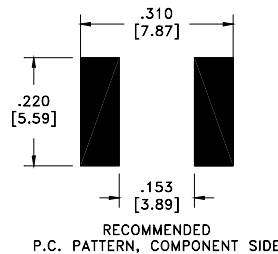
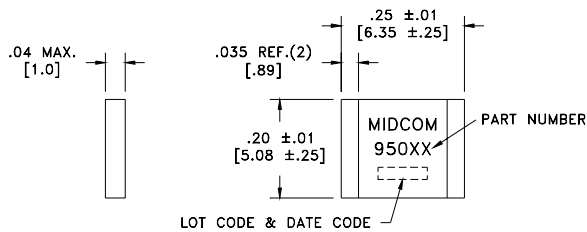


## Low Profile Series 2520 SMT Inductors



### Features

- 1mm maximum height
- Rugged package
- Self shielding
- Designed for pick and place
- Compatible with typical lead free solder profiles
- Good DC bias overload characteristics
- Low cost

### Applications

- Low power high frequency switch mode DC/DC converters:
  - Buck/Boost
  - Inverting
  - SEPIC
- White LED driver circuits
- PDAs, digital cameras, pagers
- Cordless phones, LCD displays

### Dimensions in Inches

Midcom, Inc. NASCENTechnology division has developed a family of inductors to demonstrate what can be done using Low Temperature Co-fired Ceramic (LTCC) technology. Although primarily designed for portable battery powered applications where low profile and rugged construction are critical, these inductors will find use wherever a low cost solution is desired. Since the windings are completely enclosed by ferrite, superior EMI characteristics are noted. Sized in between typical "chip" inductors and drum cores, the new Midcom inductor series has DC bias characteristics closer to drum cores, while being able to withstand DC bias overloads without totally saturating. In addition, the construction materials used can withstand high temperatures without degradation.

This product is protected under Midcom's Intellectual Property Portfolio, specifically US Patents # 6,054,914, # 6,198,374 and other pending patents.

Part No	Ls (uH)	Isat (A)	Irms (A)	DCR (ohm)	SRF (MHz)
95034	0.47	1.00	2.8	0.076	TBD
95035	0.68	0.89	2.5	0.089	TBD
95036	0.82	0.78	2.4	0.102	TBD
95037	1.0	0.69	2.2	0.114	TBD
95038	1.2	0.62	2.1	0.127	TBD
95039	1.5	0.57	2.0	0.140	TBD
95040	1.8	0.52	1.9	0.152	TBD
95041	2.2	0.50	1.87	0.165	25.7
95042	2.7	0.42	2.1	0.127	TBD
95043	3.3	0.38	2.0	0.140	TBD
95044	4.7	0.32	1.87	0.165	17.8

Notes: Ls: +/- 25%, 100kHz, 0.1vrms  
 Isat: DC current where Ls drops ~ 10% from no DC reading after initial magnetizing bias applied  
 Irms: Typical current required to raise part 40 degrees from room temperature (25 C)  
 DCR: Average value, +/- 20% @ 20 C  
 SRF: Average value shown  
 Operating temperature range: -40 to 85 C

Specifications subject to change without notice.

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