

## ADSL Magnetics

### Miniature EE5 Inductors

- Designed with two well balanced and coupled windings for use in ADSL applications where filtering is required
- Operating temperature range: -40° C to +85° C
- Meets IEC 695, 2-2 flammability requirements
- PWB Process Capability: standard printed wiring board assembly techniques, total-immersion cleaning
- Reliability testing: shock, vibration, temperature cycling, temperature - humidity - bias

#### ELECTRICAL SPECIFICATIONS AT 25° C

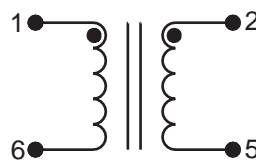
Part Number	Turns Ratio <sup>2</sup> ± 1%	Inductance μH	DCR Ω max		Dielectric Rating VDC  between (1-6) & (2-5)
	(1-6) : (2-5)		(1-6)	(2-5)	
S560-6100-16	1 : 1	50 (±5%) <sup>3</sup>	1.95	1.95	500
S560-6100-17	1 : 1	340 (±5%) <sup>3</sup>	5.8	5.8	500
S560-6100-18	1 : 1	170 (±5%) <sup>3</sup>	4.5	4.5	500
S560-6100-21	1 : 1	205 (±7.8%) <sup>3</sup>	5.5	5.5	500
S560-6100-22	1 : 1	91 (±7%) <sup>4</sup>	2	2	500
S560-6100-23	1 : 1	95.5 (±7%) <sup>4</sup>	2	2	500
S560-6100-25	1 : 1	300 (±7%) <sup>4</sup>	5.8	5.8	500
S560-6100-26	1 : 1	452 (±7%) <sup>4</sup>	8.5	8.5	500
S560-6100-27	1 : 1	505 (±7%) <sup>4</sup>	8.5	8.5	500
S560-6100-31	1 : 1	280 (±7%) <sup>3</sup>	4.8	4.8	500
S560-6100-32 <sup>1</sup>	1 : 1	91 (±7%) <sup>4</sup>	2	2	500
S560-6100-34	1 : 1	133 (±5%) <sup>3</sup>	2	2	500
S560-6100-35	1 : 1	153 (±5%) <sup>3</sup>	2.2	2.2	500

1. replace winding (1-6) with (1-5) & replace winding (2-5) with (2-4)
2. measured at 20 kHz, 1 Vrms
3. measured at 10 kHz, 0.1 Vrms
4. measured at 100 kHz, 0.1 Vrms

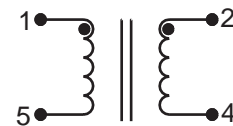
#### SCHEMATIC

**S560-6100-16**  
**S560-6100-17**  
**S560-6100-18**  
**S560-6100-21**  
**S560-6100-22**  
**S560-6100-23**

**S560-6100-25**  
**S560-6100-26**  
**S560-6100-27**  
**S506-6100-31**  
**S560-6100-34**  
**S506-6100-35**

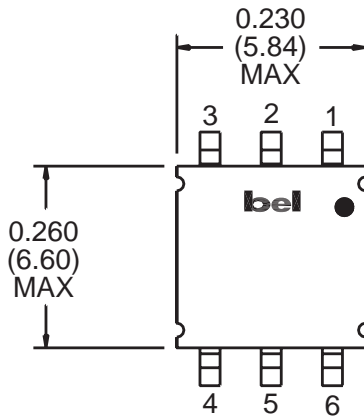


**S560-6100-32**

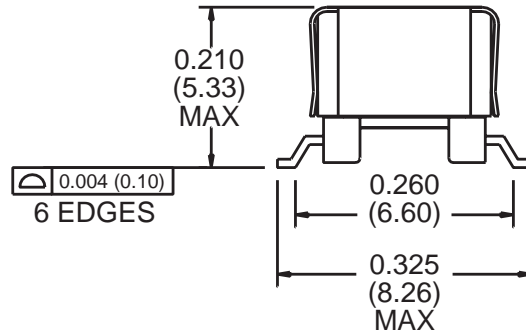
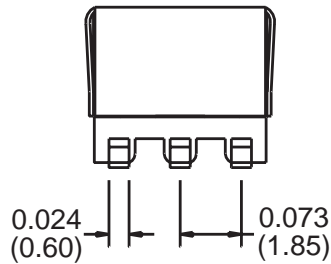
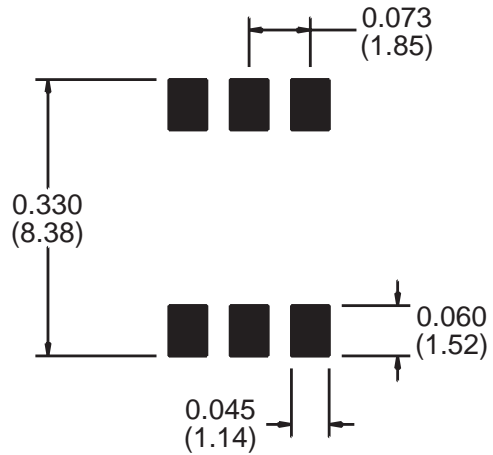


### MECHANICAL

- |                     |                     |
|---------------------|---------------------|
| <b>S560-6100-16</b> | <b>S560-6100-25</b> |
| <b>S560-6100-17</b> | <b>S560-6100-26</b> |
| <b>S560-6100-18</b> | <b>S560-6100-27</b> |
| <b>S560-6100-21</b> | <b>S506-6100-31</b> |
| <b>S560-6100-22</b> | <b>S560-6100-32</b> |
| <b>S560-6100-23</b> | <b>S560-6100-34</b> |
|                     | <b>S506-6100-35</b> |



### SUGGESTED PCB PAD LAYOUT



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