

ADSL Magnetics

EP-7 Surface-Mount Inductors



TM00329

- 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 | Inductance ¹ μH ±5% | DCR Ω max |
|--------------|--------------------------------------|-----------------|
| | (1-4) | (1-4) |
| S560-6100-09 | 20.6 | 0.25 |
| S560-6100-10 | 73.6 | 0.5 |
| S560-6100-11 | 103.25 | 0.5 |

1. measured at 0.1 Vac, 10 kHz

| Part Number | Turns Ratio ¹ ± 1% | Inductance ² μH ± 5% | Leakage Inductance ³ μH max | DCR Ω max | | Direct Capacitance ⁴ pF max | Dielectric Rating Vrms |
|--------------|----------------------------------|---------------------------------------|-------------------------------------------|-----------------|-------|-------------------------------------------|---------------------------|
| | (1-5) : (2-4) | (1-5) | (1-5) | (1-5) | (2-4) | (1-5) & (2-4) | (1-5) to (2-4) |
| S560-6100-12 | 1 : 1 | 88 | 5 | 0.65 | 0.65 | 100 | 1000 |
| S560-6100-13 | 1 : 1 | 99 | 5 | 0.7 | 0.7 | 100 | 1000 |
| S560-6100-14 | 1 : 1 | 120.5 | 5 | 0.55 | 0.55 | 100 | 1000 |
| S560-6100-15 | 1 : 1 | 129.5 | 5 | 0.55 | 0.55 | 100 | 1000 |
| S560-6100-33 | 1 : 1 | 2 mH | 5 | 8.5 | 8.5 | - | 1000 |

- measured at 20 kHz, 1 Vrms
- measured at 0.1 Vac, 10 kHz
- measured at 0.1 Vac, 100 kHz, short terminals 2 & 4
- measured at 1 Vrms, 1 kHz

| Part Number | Turns Ratio ¹ ± 1% | Inductance ² mH | | DCR Ω max | | Dielectric Rating Vac |
|--------------|----------------------------------|-------------------------------|--------------------|-----------------|-------|-------------------------------|
| | (1-3) : (4-6) | (1-3) | (1-6) ³ | (1-3) | (4-6) | between 1 & core ⁴ |
| S560-6100-24 | 1 : 1 | 0.5 | 2 | 1.65 | 1.65 | 600 |

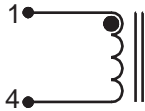
- measured at 20 kHz, 1 Vrms
- measured at 10 kHz, 0.1 Vrms
- connect 3 to 4
- connect 3 to 6

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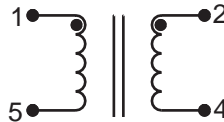
TM00329

SCHEMATIC

S560-6100-09
S560-6100-10
S560-6100-11



S560-6100-12
S560-6100-13
S506-6100-14
S560-6100-15
S560-6100-33

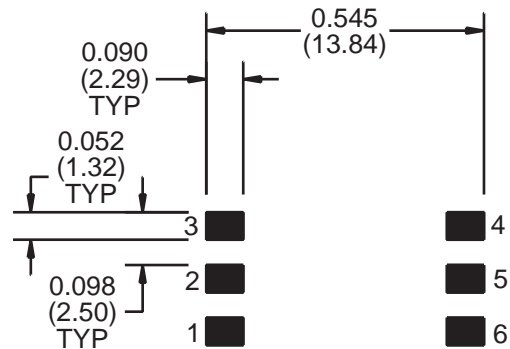
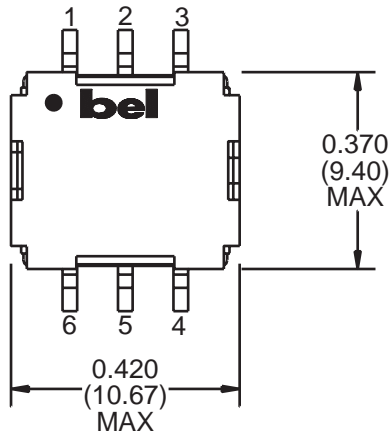


S560-6100-24

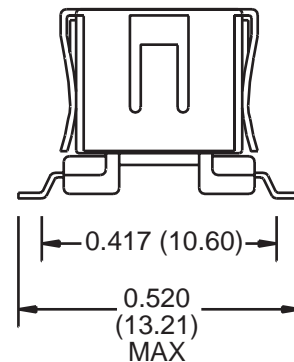
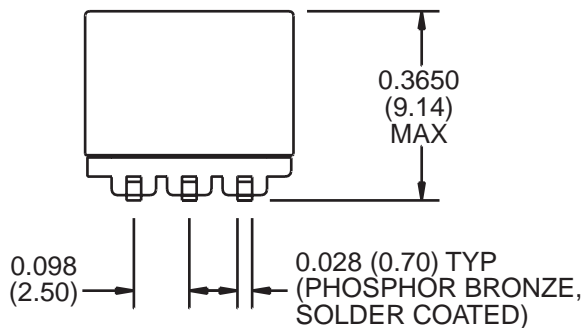


MECHANICAL

S560-6100-09 S506-6100-14
S560-6100-10 S560-6100-15
S560-6100-11 S560-6100-24
S560-6100-12 S560-6100-33
S560-6100-13



SUGGESTED PCB PAD LAYOUT



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