

INDUCTIVE COMPONENTS FOR TELECOMMUNICATION

STANDARD CORE DIMENSIONS & SPECIFICATIONS

AMP Series Telecommunication Products

| Part No. | Finished Core(mm) ① | | | L _{eff} ② (mm) | A _{eff} ③ (mm ²) | A _{LO} ④ (μH) | A _{LV} ⑤ (μH) | Remark |
|--------------|---------------------|-----|-----|----------------------------|--|---------------------------|---------------------------|-----------------------------|
| | OD | ID | HT | | | | | |
| AMP-10S-32 | 11.1 | 5.1 | 5.8 | 25.5 | 6.1 | 26.0 ^{a)} | - | S _{2M} |
| AMP-10B-30 | 11.1 | 5.3 | 7.6 | 25.5 | 8.2 | 20.7 ^{a)} | 14.1 ^{b)} | S _o (1mA),4kV |
| AMP-10S-18 | 11.1 | 5.1 | 5.8 | 25.5 | 6.1 | 18.4 ^{a)} | 12.4 ^{c)} | S _o (3mA) |
| AMP-06A-12 * | 6.8 | 3.0 | 4.1 | 15.0 | 3.8 | 9.8 ^{a)} | 6.9 ^{d)} | S _o (4mA) |
| AMP-10S-14 | 11.1 | 5.1 | 5.8 | 25.5 | 6.1 | 8.9 ^{a)} | 6.1 ^{e)} | S _o (5mA) |
| AMP-07A-08 * | 7.5 | 3.0 | 4.2 | 15.9 | 5.2 | - | 0.6 ^{f)} | U _{PO} ,DSL |
| AMP-10S-03 | 11.1 | 5.1 | 5.8 | 25.5 | 6.1 | - | 0.315-0.385 ^{g)} | U _{KO} (4B3T), DSL |

Note 1:

- 1) The finished core dimensions shows a limiting ones.
- 2) Nominal values of magnetic path length.
- 3) Nominal values of cross-section area.
- 4) Minimum value. Initial nominal inductance.
- 5) Minimum value under the dc bias current.
- 6) Typical application area.

Note 2:

- a) 10kHz
- b) 20kHz, I_{dc} × N=19mA
- c) 20kHz, I_{dc} × N=66mA
- d) 20kHz, I_{dc} × N=120mA
- e) 20kHz, I_{dc} × N=145mA
- f) 20kHz, I_{dc} × N=4500mA
- g) 20kHz, I_{dc} × N=10.2A

Note 3:

* Parylene coated product on encapsulated with aluminum case. The other products are produced with plastic ones.