



CCITT G.703 Toolless IDC BALUN

Description:

The Toolless IDC baluns are ideal in applications where size and space are restricted due to small dimension. It is designed to be terminated by hand, without punch-down tool for faster and easier installation. They are available in three versions, 2-8Mbits, 2-8-34 Mbits or 34 to 155Mbits.

These mini Balun surface mount transformers are replacements to traditional coaxial, ceramic and printed circuit board baluns, and designed for matching to the differential inputs and outputs or modern chipsets. Conversion to twisted pair cabling enables the use of high density IDC modules in digital Distribution Frames thus decreasing wiring densities more than 5 times.

Features:

1. Various industry standard types of coaxial connectors (75 Ohm) are available including male and female combinations of BNC, 1.6/5.6, 1.0/2.3, and Type 43.
2. Contacts plated min 1.25 μ Ni & min 1.25 μ Au
3. IDC connect/disconnect cycle>20
4. Coax connectors with BeCu contacts and Teflon insulators
5. IDC to suit 22-24, 26-28 or 30-32 AWG Copper cable, teflon insulators.
6. Body parts plated min 5 μ Ni
7. Coaxial connector connect/disconnect cycle >500
8. Cable anchorage is via a tortuous path around the stuffer cap and grounding ring
9. IDC connect/disconnect cycle>20
10. IDC contacts phosphor Bronze, silver plated
11. No AC power or batteries needed
12. Link-to-data isolation: Mini. 250V
13. Bi-directional signal conversion
14. Operating temperature: 0-75°C
15. Ultra-miniature enclosure
16. Typical distance on good quality cable will be 180 meter

Specification:

2-8 Mbit/s speed version for E1 (T1), E2 (T2) data streams

Impedance: 75 ohm to 120 ohm/100 ohm

Insertion loss: Max. 0.2dB (2Mbps); Max. 0.3dB(8Mbps)

Return loss: -29dB(2Mbps); -21dB(8Mbps)

Cross talk: better than -80dB from 0.1 to 12MHz between any 2 baluns mounted distance up to 15mm

2-8-34 Mbit/s speed version for E1 (T1) to E3 (T3) data streams

Impedance: 75 ohm to 120 ohm/100 ohm

Insertion loss: Max. 0.3dB (8Mbps); Max. 0.9dB from 0.2-70MHz

Return loss: -21dB(8Mbps); -15dB from 1 to 70 MHz

Cross talk: better than -60dB from 1MHz to 70MHz between any 2 baluns mounted distance up to 15mm

34 to 155 Mbit/s speed version for E3 (T3) and higher data streams

Impedance: 75 ohm to 120 ohm/100 ohm

Insertion loss: Max. 0.8dB from 860 KHz to 52 MHz Max. 1.5dB from 50KHz to 240 MHz

Return loss: Max. 15dB from 1MHz to 240 MHz

Cross talk: -80dB from 1MHz to 240MH