



ITU-T/CCITT G. 703 Dual Balun 75-120Ω 2-8 Mbps

Description

Dual Balun is a miniature CCITT G.703 balun that allows 75 ohm coax hardware to communicate with 120 ohm twisted pair equipment. Supporting E1 data rates to 2.048 Mbps, E2 to 8.448 Mbps, dual balun receives 75 ohm signals and converts them to 120 ohm for transmission over a network or reception by a CPE. The signals output by dual balun are scaled to match the pulse shape requirements specified by the CCITT G.703 standard.

Features:

1. No AC power or batteries needed
2. Link-to-data isolation: Mini. 250V
3. Bi-directional signal conversion
4. Operating temperature: 0-75°C
5. Ultra-miniature enclosure
6. Typical distance on good quality cable will be 180 meter

Specification:

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

