PRODUCT DESCRIPTION

This Balun converts E1 and E2 G.703 signals from unbalanced 75Ω coaxial to balanced 120Ω twisted pair transmissions. A bi-directional device requiring no external power, it allows the user to connect telecommunications equipment with mismatched interfaces or convert a coaxial DDF to twisted pair. This product offers the following features:

- coax to twisted pair conversion
- exceeds G.703 requirements
- > 33dB return loss 0.3 to 3MHz
- shielded construction
- genuine Krone® IDC

• SMB (f) connector to IEC 169-10
• 75Ω to 120Ω impedances
• < 0.15dB E1 insertion loss
• > 1.25µm of gold plating on pin
• designed for long life
• small size
• 2 and 8Mbit/s data rates
• > 70dB cross talk
• teflon coaxial insulators
• built for high reliability

OPERATING CONDITIONS

Matching Impedance: 75 ohm unbalanced coaxial to 120 ohm balanced twisted pair
Bit Rate: 2Mbit/s (E1) and 8Mbit/s (E2) per ITU-T G.703 Line Code
Signal Level: 2.37V nominal peak voltage at the coaxial end per G.703
Working Temperature: -30°C to 75°C

ELECTRICAL SPECIFICATIONS

Insertion Loss: < 0.15dB from 51kHz to 3.072MHz (E1) and
< 0.20dB from 211kHz to 12.673MHz (E2) in both directions
Return Loss: Exceeds G.703 requirements > 26dB from 51kHz to 3.072MHz (E1)
and > 26dB from 211kHz to 12.673MHz (E2)
Pulse Shape: Exceeds G.703 requirements for 2Mbit/s and 8Mbit/s
Cross Talk: > 70dB from 51kHz to 12.673MHz, 2 baluns 15mm apart
Isolation Voltage: < 250V DC

MECHANICAL SPECIFICATIONS

Coaxial Connector: SMB female to IEC 169-10
Body: Brass, Plated Cu/Ni5/Au and Cu/Ni2/Sn5
Slotted Contact: Brass with Beryllium Copper Retaining Ring, Plated Cu/Ni5/Au0.8
Pin: Beryllium Copper, Plated Cu/Ni5/Au1.25
Insulator: Teflon
Mating Cycles: 500min

IDC Connector: Wire: Conductor Ø 0.4 to 0.65mm, Insulation Ø 0.7 to 1.4mm
Contacts: Silver Plated
Moulding: Polyester White
Mating Cycles: 50min
Mouldings: Noryl Black

TERMINATION

IDC: Krone Connection Tool 6089 2 003-00 or 6417 2 810-02

registered trade mark of the Krone Company