PRODUCT DESCRIPTION

This Balun converts E1 and E2 G.703 signals from unbalanced 75\(\Omega\) coaxial to balanced 120\(\Omega\) 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. Designed for mounting in a DDF panel 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\textsuperscript{\textregistered} IDC
- 1.0/2.3 (f) connector to IEC 169-29
- 120\(\Omega\) to 120\(\Omega\) impedances
- < 0.15dB E1 insertion loss
- > 1.25\(\mu\)m 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: 1.0/2.3 female to IEC 169-29
Body: Brass, Plated Cu/Ni5/Au0.8 and Cu/Ni2/Sn5
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 1 810-02
Panel Mounting: 1.0/2.3 Tube Spanner