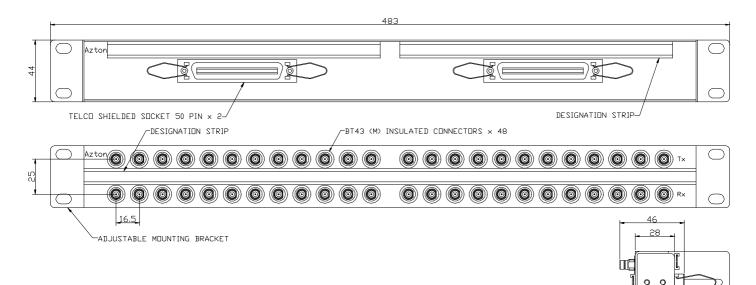
# Balun Panel, 75/120W, E1 & E2, Shielded, 19" 1RU 48x BT43 (m) to 2x TELCO 50 Pin (f)



## **PRODUCT DESCRIPTION**

This Balun Panel 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. This product offers the following features:-

- coax to twisted pair conversion
- 75 $\Omega$  to 120 $\Omega$  impedances
- mounts in standard 19" rack
- zinc sealed, powder coated steel
- genuine AMP Telco connector
- BT43 (m) to Telco (AMP CHAMP) exceeds G.703 requirements
- > 33dB return loss 0.3 to 3MHz • mount coax or Telco to front
- > 1.25 $\mu$ m of gold plating on pin
- configuration options available
- - < 0.15dB E1 insertion loss</p>
  - mount recessed to ease cable entry

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- teflon coaxial insulators
- long life, 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

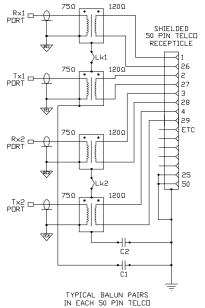
#### **ELECTRICAL SPECIFICATIONS**

Insertion Loss:	< 0.15dB from 51kHz to 3.072MHz (2Mbit/s, E1) and
	< 0.20dB from 211kHz to 12.673MHz (8Mbit/s, E2) in both directions
Return Loss:	Exceeds G.703 by > 13dB for 2Mbit/s and > 8dB for 8Mbit/s
Pulse Shape:	Exceeds G.703 requirements for 2Mbit/s and 8Mbit/s
Cross Talk:	> 65dB from 51kHz to 12.673MHz between channels
	(> 50dB for adjacent Telco contacts)
Isolation Voltage:	< 250V DC

#### **MECHANICAL SPECIFICATIONS**

Coaxial Connector:	Type43 male to BS9210 F0022 Outer Contact: Brass, Plated Cu/Ni5/Au0.8 Pin: Brass, Plated Cu/Ni5/Au1.25 Insulator: Teflon Mating Cycles: 500min
Telco Connector:	Contacts: Copper Alloy, Plated Ni/Au
	Moulding: Thermoplastic, Black Shield: Die Cast, Plated Ni
Panel:	Steel, Zinc Sealed and Powder Coated Black
Insulators:	Polyethylene, Black

For 21" and 23" racks



Specification subject to change without notice

Mounting Brackets:

ACCESSORIES

P23BB0924 Data Sheet R1.0.doc

## www.azton.com