ACE AND E TELECOMMUNICATIONS

483

25

16.5

Tx

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Rx

Adjustable Mounting Brackets

SMB(M) Insulated Connectors x48
Shielded .050 50 Pin Female D Connector x2

Printed Labels Or Optional Designation Strips

44

Ports 13 To 24

Ports 1 To 12

46.48

34.7

1.27

Pin 1

2-56 Threads And Latch Locks

5.54

2.54

Pin 50

Pin 26

.050 50 Pin Female D Connector Detail

39

28

View With Bracket Removed

PRODUCT DESCRIPTION

This Balun Panel converts E1 and E2 G.703 signals from unbalanced 75 coaxial to balanced 120 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 to 120 impedances
- exceeds G.703 requirements
- mounts in standard 19" rack
- teflon coaxial insulators

- SMB(m) to Amplimite connector
- >33dB return loss 0.3 to 3MHz
- mount coax or 50 pin D to front
- gold plated connector pins
- optional designation strips

- RoHS compliant
- <0.15dB E1 insertion loss
- mount recessed to ease cable entry
- zinc sealed, powder coated steel
- .050 50way mini Telco option available

OPERATING CONDITIONS

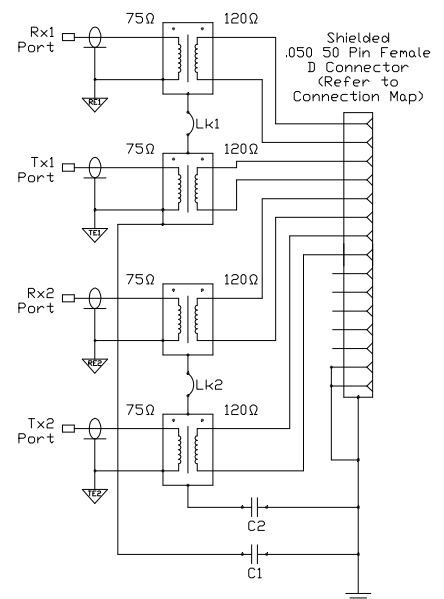|	
Matching Impedance:	75 unbalanced coaxial to 120 balanced twisted pair
Bit Rate:	2Mbit/s (E1) and 8Mbit/s (E2) per ITU-T G.703 Line Code
Signal Level:	2.37V nominal peak voltage at the coaxial end per G.703
Working Temperature:	-30°C to 75°C

ELECTRICAL SPECIFICATIONS

Insertion Loss:	<0.15dB from 51kHz to 3.072MHz (2Mbit/s, E1) and <0.20dB from 211kHz to 12.672MHz (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 12.672MHz between channels (>50dB for adjacent .050 50 pin D connector contacts)
Isolation Voltage:	>250V DC

MECHANICAL SPECIFICATIONS

Coaxial Connector:	SMB male to IEC 169-10
	Body: Brass, Plated Cu/Ni/Au
	Pin: Brass, Plated Cu/Ni/Au
	Insulator: Teflon
	Mating Cycles: 500min
Amplimite Connector:	Contacts: Phosphor Bronze, Plated Ni/Au
	Moulding: Thermoplastic, Black
	Shield: Steel, Nickel Plated
Panel:	Steel, Zinc Sealed and Powder Coated Black
Panel Insulators:	Thermoplastic, Black

ACCESSORIES

Mounting Brackets:	For 21" and 23" racks
Cable Management Kits:	For 19", 21" and 23" rack

Rx1 Port
75Ω 120Ω
Shielded .050 50 Pin Female D Connector (Refer to Connection Map)
Lk1
Tx1 Port
75Ω 120Ω

Rx2 Port
75Ω 120Ω
Lk2
Tx2 Port
75Ω 120Ω
C2
C1

Typical Balun Pairs In Each 50 Pin D Connector

ACandE M1308342A1 Data Sheet R2.1
Specification subject to change without notice.

© AC&E Pty Limited 2001-2016
E-mail: connect@acande.com

www.acande.com