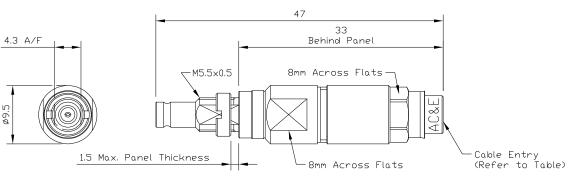


# Balun Mini, 1.0/2.3(f) 75/120 , 2-8-34Mbit/s Bulkhead Mount

# B04044070 B04044075



## ELECTRICAL

| Matching Impedance: | 75 unbalanced coaxial to 120 balanced twisted pair                    |
|---------------------|---|
| Bit Rates:          | 2Mbit/s, 8Mbit/s and 34Mbit/s as ITU-T Recommendation G.703 Line Code |
| Return Loss:        | 2Mbit/s, 8Mbit/s and 34Mbit/s as per G.703 requirements               |
| Insertion Loss:     | <0.9dB from 51kHz to 51.55MHz   |
| Cross Talk:         | >60dB from 51kHz to 51.55MHz between 2 baluns mounted 15mm apart      |
| Pulse Shape:        | 2Mbit/s, 8Mbit/s and 34Mbit/s as per G.703                            |
| Signal Levels:      | 2.37V nominal peak voltage for 2Mbit/s and 8Mbit/s at the coaxial end |
|                     | 1V nominal peak voltage for 34Mbit/s at the coaxial end as per G.703  |
| Isolation Voltage:  | 250VDC for 1 minute between windings                                  |
| Pulse Test:         | 3kV as per ITU-T, K.17  |
| EMC:                | CISPR 22 Class B for radiated emissions, also AS/NZS 3548 1995        |
|                     |   |

#### MATERIALS

Coax Connector Outer Contact: Coax Connector Body: Coax Connector Insulator: Coax Connector Inner Contact: Balun Body, Nut & Rear Tube: IDC Contacts: Brass Alloy AS 1567 Type 385. Finish Cu/Ni/Au Brass Alloy AS 1567 Type 385. Finish Cu/Ni/Au PTFE CuBe. Finish Cu/Ni/Au Brass Alloy AS 1567 Type 385. Finish Cu/Ni CuSn6. Finish Sn -(\ophi0.25~\ophi0.40 conductors) Sn/Au -(\ophi0.50~\ophi0.65 conductors) Liquid Crystal Polymer, UL 94 V-0

IDC Moulding & Stuffer Cap:

#### COAXIAL CONNECTOR (75)

| 1.0/2.3 Series: | To IEC 169-29 |
|-----------------|---------------|
| Mating Cycles:  | 500           |

#### **TWISTED PAIR CABLE DETAILS**

| Part Number          | Cable Wire Size   | Cable Entry Diameter |
|----------------------|---|----------------------|
| B04 044 <b>070</b> * | 0.5mm (AWG 24) to 0.65mm (AWG 22) conductor diameter, STP or UTP Insulation diameter from 0.7mm to 1.5mm. | 4.9mm Min. **        |
| B04 044 <b>075</b> * | 0.25mm (AWG 30) to 0.4mm (AWG 26) conductor diameter, STP or UTP Insulation diameter from 0.7mm to 1.5mm  | 2.6mm Min. **        |

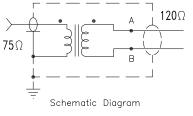
\* The correct selection of the balun to match the cable conductor size is imperative to the reliability of the product. \*\* Custom cable size available upon request.

IDC Mating Cycles: 20

#### ENVIRONMENTAL

| Working Temperature: | -30°C to 75°C              |
|----------------------|----------------------------|
| RoHS Compliance:     | To EU Directive 2011/65/EU |





### TERMINATION

IDC Termination: Spanners, 8mm A/F, 2 off

© AC&E Pty Limited 2

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

# www.acande.com