

SRICOM

# BALUN & DDF ASSEMBLY



SRINAR COMMUNICATIONS PVT. LTD.

## **SRINAR COMMUNICATIONS PVT. LTD,**

called **SRICOM** in short, is located at Chennai in the southern part of India. Situated in a pollution-free environment, the facility has about 35,000 square foot built-up area, housing the complete machinery and equipments to manufacture RF connectors to the international standards.

**SRICOM** has 23 years experience in this line. We specialize in developing custom built RF connectors, cable assemblies and antennas to the specific requirements of the customers. Our products cater to varieties of industries ranging from entertainment, professional, avionics to satellite communications.

**SRICOM** included antennas to its product range from the year 2001. Owing to the large requirement of antennas for the rural connectivity, the antenna division was founded and since then various antennas for CorDECT, CDMA, Wi-Fi, WiMAX, RFID and GSM were developed and supplied in large volume.

**SRICOM** has the state-of-the-art facility for machining, electroplating, assembly and quality assurance. It has a battery of automatic lathes, CNC and CAM operated sliding head stock machines, special purpose milling, drilling and tapping machines, etc. Our electroplating shop has the capability to do gold, silver, nickel and tin plating.

**SRICOM** has the expertise and the capability to produce large volume as well as small batch prototypes in quick turnaround time. At the moment our services are available in countries like United States, Israel, Philippines, Singapore, Australia and the local market also. As we are in the process of expansion, our presence will be extended to more countries and in many more value added components. We look forward to your patronage as ever. For any of your requirements please call our market support who will respond immediately or direct you to the right dealer network.



### **Baluns (75 Ohms to 120 Ohms)**

Sricom Baluns are designed to provide cost effective, reliable and robust conversion. Baluns (Balanced to Unbalanced) are compact and space saving components to serve the purpose of interfacing the balanced and the unbalanced line of signal. Baluns are used to transform one impedance to the other by facilitating RF connectors at one end and twisted cable wire at the other end. Sricom Baluns are available in 1U/2U modules of 32, 41 and 42 ports suitable for 19" DDF Rack. These are ideally suitable for Telecom Service Providers.

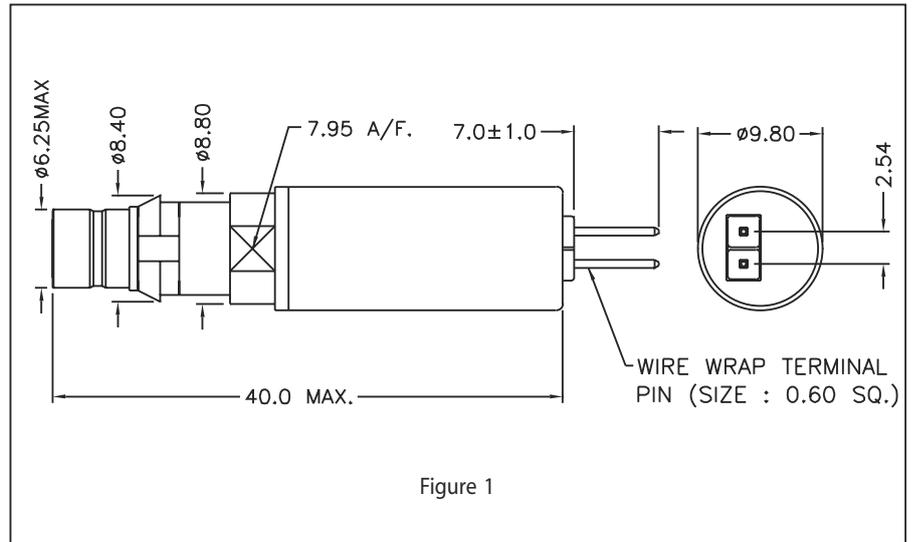


Figure 1

Order Code No : SE 11P - 75 - 120

Description : 75 - 120 Ohms Converter

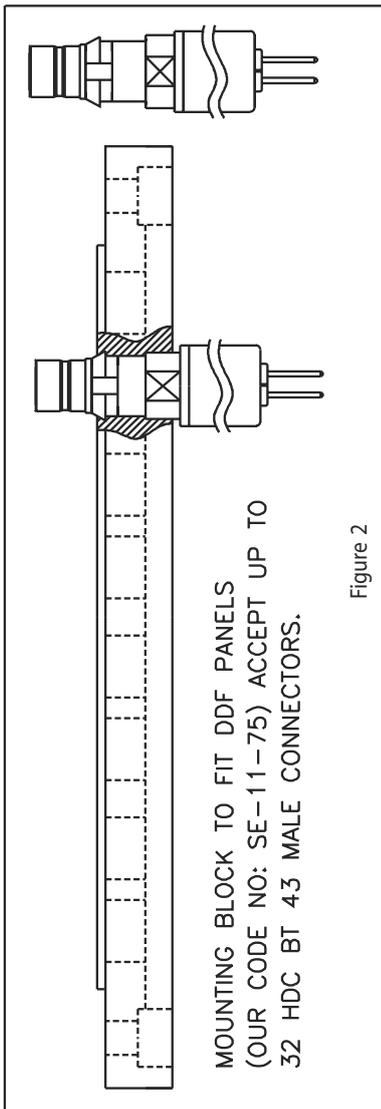


Figure 2

**TECHNICAL SPECIFICATIONS**

**ELECTRICAL DATA**

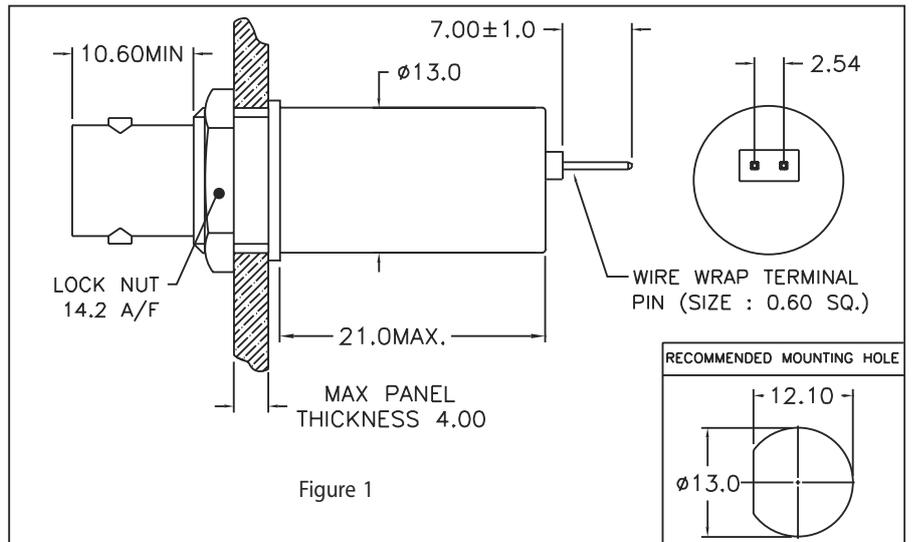
|                                 |   |
|---------------------------------|---|
| Insulation Resistance           | 1G Ohm @ 1000V DC                                     |
| Dielectric Withstanding Voltage | 1000V AC  |
| Return Loss                     | Higher than 20dB @ 1MHz                               |
| Insertion Loss                  | Less than 0.50 dB @ V = 2.37V peak across 75 Ohm side |

**MECHANICAL DATA**

|                          |                   |
|--------------------------|-------------------|
| Outline Dimensions       | As per Figure - 1 |
| Interface                | BS 9210F 0022     |
| Connector                | BT 43 Male        |
| Axial Force (mating end) | 22 N min.         |
| Repeatability            | 500 Cycles        |

**MATERIALS DATA**

| Connector Part | Material        | Finish         |
|----------------|-----------------|----------------|
| Contact Body   | Brass           | Gold Plated    |
| Body           | Brass           | Nickel Plated  |
| Center Contact | Brass           | Gold Plated    |
| Insulator      | P.T.F.E.        | Natural        |
| Terminal Pin   | Phosphor Bronze | Gold Plated    |
| Circlip        | PVC / Nylon     | Block (Molded) |



Order Code No : SE02 - 75 - 120

Description : 75 - 120 Ohms Converter

**TECHNICAL SPECIFICATIONS**

**ELECTRICAL DATA**

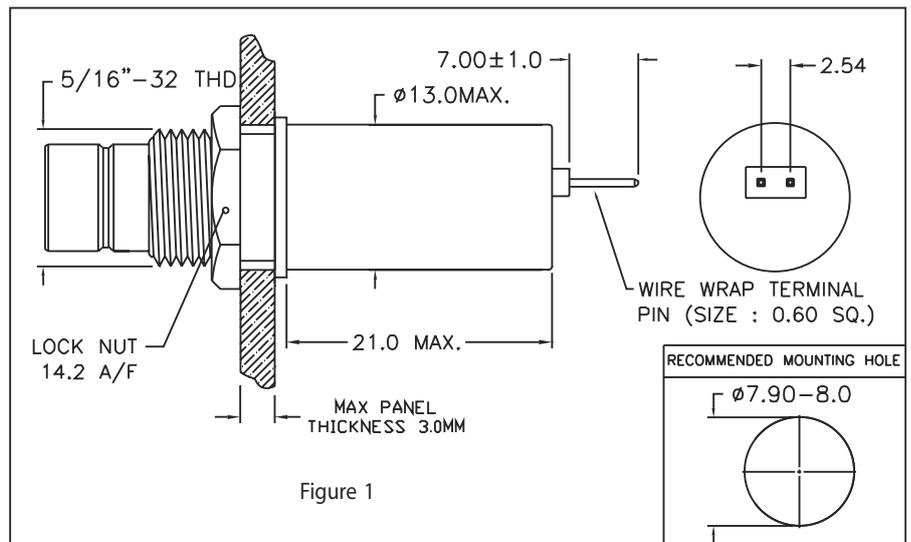
|                                 |   |
|---------------------------------|---|
| Insulation Resistance           | 1G Ohm @ 1000V DC   |
| Dielectric Withstanding Voltage | 1000V AC  |
| Return Loss                     | Higher than 20dB @ 1MHz                                     |
| Insertion Loss                  | Less than 0.50 dB @<br>V = 2.37V peak<br>across 75 Ohm side |

**MECHANICAL DATA**

|                    |  |
|--------------------|--|
| Outline Dimensions | As per Figure - 1                                |
| Interface<br>301.2 | As per MIL - STD - 348 Fig<br>BNC (F) Connectors |
| Connector          | BNC Female                                       |
| Repeatability      | 500 Cycles                                       |

**MATERIALS DATA**

| Connector Part | Material    | Finish        |
|----------------|-------------|---------------|
| Contact Body   | Brass       | Nickel Plated |
| Lock Nut       | Brass       | Nickel Plated |
| Center Contact | Ber. copper | Gold Plated   |
| Insulator      | P.T.F.E.    | Natural       |



**Order Code No : SE11R - 75 - 120**

**Description : 75 - 120 Ohms Converter**

**TECHNICAL SPECIFICATIONS**

**ELECTRICAL DATA**

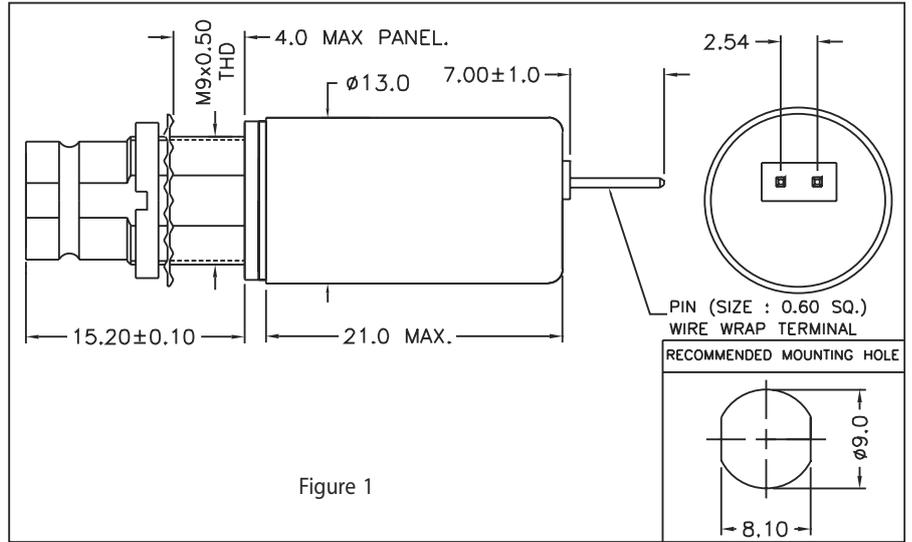
|                                 |   |
|---------------------------------|---|
| Insulation Resistance           | 1G Ohm @ 1000V DC                                     |
| Dielectric Withstanding Voltage | 1000V AC  |
| Return Loss                     | Higher than 20dB @ 1MHz                               |
| Insertion Loss                  | Less than 0.50 dB @ V = 2.37V peak across 75 Ohm side |

**MECHANICAL DATA**

|                    |                      |
|--------------------|----------------------|
| Outline Dimensions | As per Figure - 1    |
| Interface          | As per BS 9210F 0022 |
| Connector          | BT 43 Male           |
| Repeatability      | 500 Cycles           |

**MATERIALS DATA**

| Connector Part | Material        | Finish        |
|----------------|-----------------|---------------|
| Contact Body   | Brass           | Gold Plated   |
| Lock Nut       | Brass           | Nickel Plated |
| Center Contact | Brass           | Gold Plated   |
| Insulator      | P.T.F.E.        | Natural       |
| Terminal Pin   | Phosphor Bronze | Gold Plated   |



Order Code No : SE6T - 75 - 120

Description : 75 - 120 Ohms Converter

**TECHNICAL SPECIFICATIONS**

**ELECTRICAL DATA**

|                                 |   |
|---------------------------------|---|
| Insulation Resistance           | 1G Ohm @ 1000V DC   |
| Dielectric Withstanding Voltage | 1000V AC  |
| Return Loss                     | Higher than 20dB @ 1MHz                                     |
| Insertion Loss                  | Less than 0.50 dB @<br>V = 2.37V peak<br>across 75 Ohm side |

**MECHANICAL DATA**

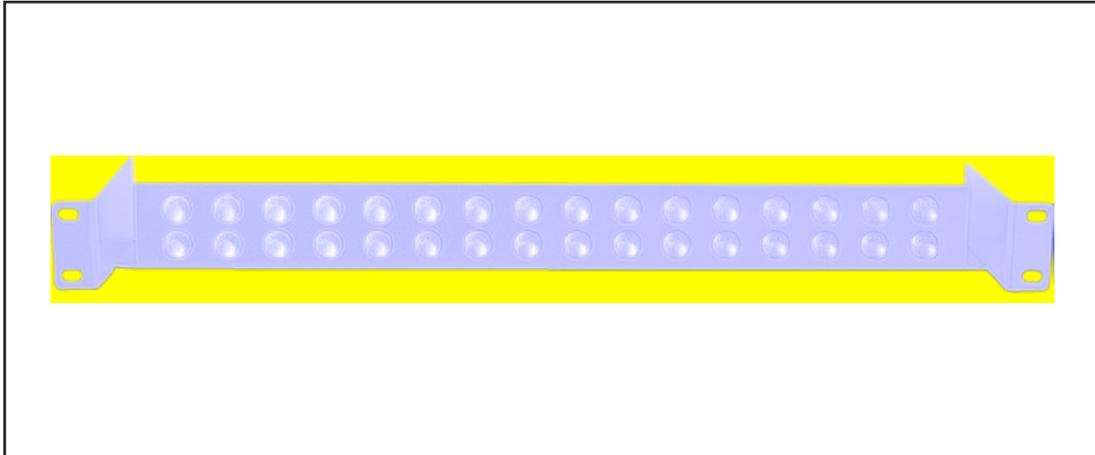
|                    |                   |
|--------------------|-------------------|
| Outline Dimensions | As per Figure - 1 |
| Connector          | 1.6 / 5.6 Female  |
| Repeatability      | 500 Cycles        |

**MATERIALS DATA**

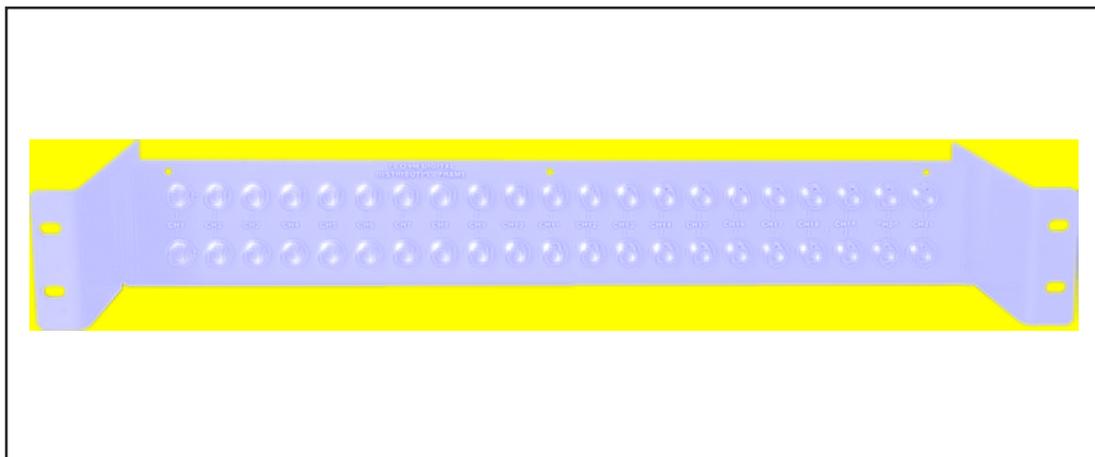
| Connector Part | Material        | Finish        |
|----------------|-----------------|---------------|
| Contact Body   | Brass           | Gold Plated   |
| Lock Nut       | Brass           | Nickel Plated |
| Center Contact | Ber. Copper     | Gold Plated   |
| Insulator      | P.T.F.E.        | Natural       |
| Terminal Pin   | Phosphor Bronze | Gold Plated   |



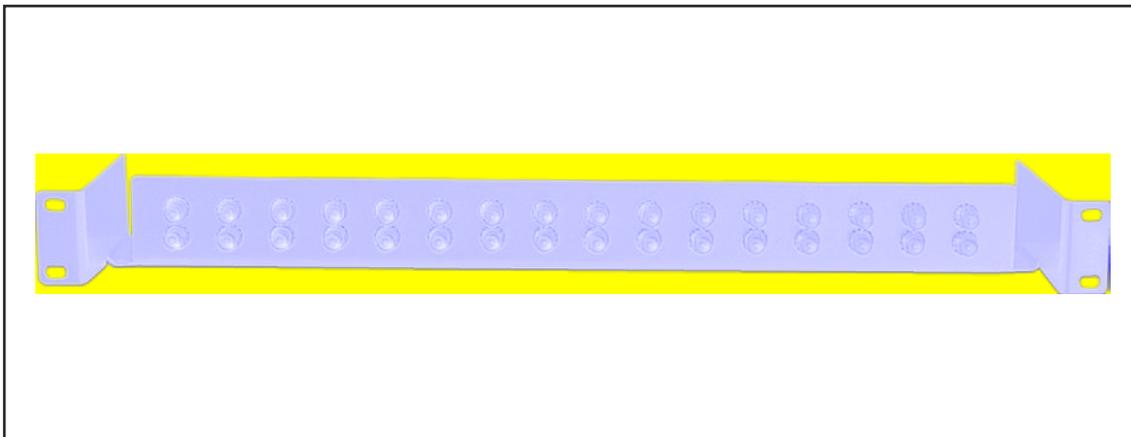
**DIGITAL DISTRIBUTION FRAME**



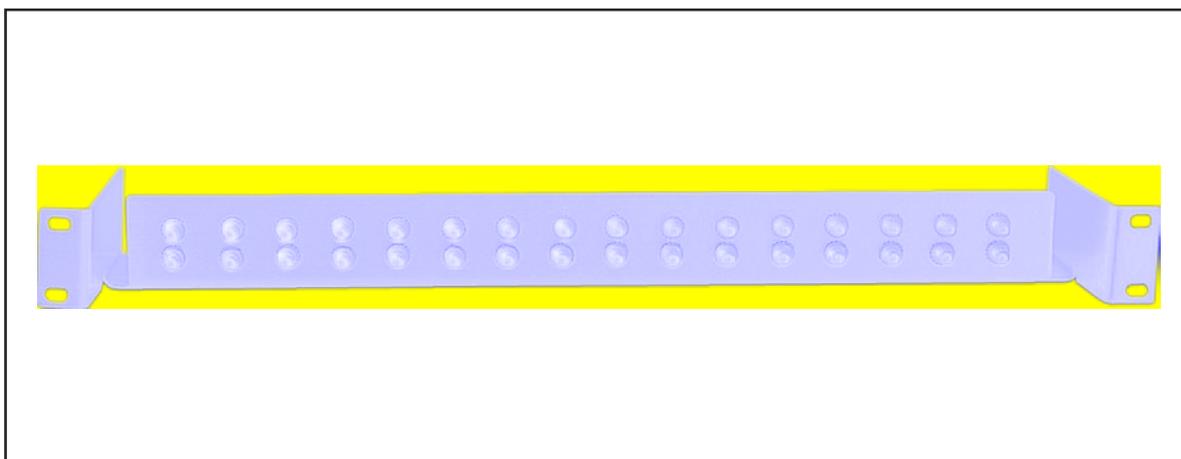
|                      |          |   |
|----------------------|----------|---|
| <b>Order code No</b> | <b>:</b> | <b>SC2 - DR1932A</b>                    |
| <b>Description</b>   | <b>:</b> | <b>BNC 32 Baluns Connector Assembly</b> |
| <b>Panel Width</b>   | <b>:</b> | <b>1U MODULE / Suitable 19" Rack</b>    |
| <b>Finish</b>        | <b>:</b> | <b>Powder Coating - Black / Gray</b>    |



|                      |          |  |
|----------------------|----------|--|
| <b>Order code No</b> | <b>:</b> | <b>SC2-DR1942A</b>                       |
| <b>Description</b>   | <b>:</b> | <b>BNC 42 Baluns Connector Assembly</b>  |
| <b>Panel Width</b>   | <b>:</b> | <b>2U MODULE / Suitable for 19" Rack</b> |
| <b>Finish</b>        | <b>:</b> | <b>Powder Coating - Black / Gray</b>     |



|                      |          |  |
|----------------------|----------|--|
| <b>Order code No</b> | <b>:</b> | <b>SC6-DR1932A</b>                       |
| <b>Description</b>   | <b>:</b> | <b>DIN 32 Baluns Connector Assembly</b>  |
| <b>Panel Width</b>   | <b>:</b> | <b>1U MODULE / Suitable for 19" Rack</b> |
| <b>Finish</b>        | <b>:</b> | <b>Powder Coating - Black / Gray</b>     |



|                      |          |   |
|----------------------|----------|---|
| <b>Order code No</b> | <b>:</b> | <b>SC11-DR1932A</b>                       |
| <b>Description</b>   | <b>:</b> | <b>(SMB-75) Baluns Connector Assembly</b> |
| <b>Panel Width</b>   | <b>:</b> | <b>1U MODULE / Suitable for 19" Rack</b>  |
| <b>Finish</b>        | <b>:</b> | <b>Powder Coating - Black / Gray</b>      |

## **TYPE INDEX**

| <b>Order Code No.</b> | <b>Type</b> | <b>Description</b>                   | <b>Page No.</b> |
|-----------------------|-------------|--------------------------------------|-----------------|
| SE11P - 75 - 120      | Balun       | 75 - 120 Ohms Converter              | 2               |
| SE02 - 75 - 120       | Balun       | 75 - 120 Ohms Converter              | 3               |
| SE11R - 75 - 120      | Balun       | 75 - 120 Ohms Converter              | 4               |
| SE6T - 75 - 120       | Balun       | 75 - 120 Ohms Converter              | 5               |
| SC2 - DR1932A         | DDF         | BNC 32 Baluns Connector Assembly     | 6               |
| SC2 - DR1942A         | DDF         | BNC 42 Baluns Connector Assembly     | 6               |
| SC6 - DR1932A         | DDF         | DIN 32 Baluns Connector Assembly     | 7               |
| SC11 - DR1932A        | DDF         | (SMB - 75) Baluns Connector Assembly | 7               |



*Part of the machine shop*



*Part of the plating shop*



*Part of the assembly*



*Part of the final inspection*



## SRINAR COMMUNICATIONS PVT. LTD.

138, ELCOT Avenue | Sholinganallur | Chennai 600 119 | INDIA  
Tel : +91 44 2450 1134 | Fax : +91 44 2450 1135 | E-mail : [mkt@sricomworld.com](mailto:mkt@sricomworld.com) | Website : [www.sricomworld.com](http://www.sricomworld.com)