

## ADSL POTS SPLITTER

### FEATURES:

- ◆ Designs reference standard for *ETSI*
- ◆ POTS loop DC currents from 0mA to 100mA
- ◆ Operation temperature  $-10$  to  $75^{\circ}\text{C}$
- ◆ Impedance with  $Z_c$  is  $150\text{nF} // 750\Omega + 270\Omega$
- ◆ Impedance with  $Z_r$  is  $600\Omega$
- ◆ Impedance with  $Z_{\text{adsl}}$  is  $120\text{nF} + 100\text{nF} + 100\Omega // 0.47\text{mH} + 120\text{nF} + 100\text{nF}$
- ◆ Impedance with  $Z_{\text{RHF}}$  is  $120\Omega + 150\Omega // 47\text{nF} + 750\Omega // 150\text{nF}$

### *Electrical specification*

| <i>Parameter</i>                               | <i>Frequency</i> | <i>min</i> | <i>max</i>       | <i>unit</i> |
|--|------------------|------------|------------------|-------------|
| DC series resistance                           |                  |            | 50(each line 25) | ohm         |
| DC resistance to earth                         |                  | 20         |                  | Mohm        |
| DC resistance between A wire and B wire        |                  | 5          |                  | Mohm        |
| Insertion loss to $Z_r$                        | 200HZ~4KHZ       | -1         | +1               | dB          |
| Insertion loss to $Z_c$                        | 200HZ~4KHZ       | -1         | +1               | dB          |
| Isolation(insertion loss to $Z_{\text{RHF}}$ ) | 32KHZ~1100KHZ    | 55         |                  | dB          |
| Return loss to( $Z_r$ )                        | 300HZ~3.4KHZ     | 12         |                  | dB          |
|  | 3.4KHZ~4KHZ      | 8          |                  | dB          |
| Return loss to( $Z_c$ and $Z_{\text{adsl}}$ )  | 300HZ~3.4KHZ     | 12         |                  | dB          |
|  | 3.4KHZ~4KHZ      | 8          |                  | dB          |
| Longitudinal balance                           | 50HZ~600HZ       | 40         |                  | dB          |
|  | 600HZ~4KHZ       | 46         |                  | dB          |
|  | 4KHZ~32KHZ       | 40         |                  | dB          |
|  | 32KHZ~2208KHZ    | 50         |                  | dB          |
|  | 2208KHZ~5MHZ     | 30         |                  | dB          |