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Indoor RF passives

## SOT-SERIES

The SOT range of wall outlets is designed to allow operators to build their networks in the best way possible.

These incorporate our unique Ingress and Egress Reduction BarriER Technology which prevents noise and other signal disturbances leaking into the network from the home installation and also prevents noise and other signal disturbances from the network entering the home. Thanks to incorporating this technology on the customer ports, broadband services are improved, especially in the area of DOCSIS upstream frequencies, giving enhance network performance and improved reliability.

### SOT-series features

- A wide range of outlet versions - all having a frequency range up to 1218 MHz
- BarriER technology at customer ports
- Terminated & loop through versions with diplex split 204/258 MHz
- Meets Class A Screening requirements
- All ports feature 1 kV high voltage protection

One of Teleste's unique and award winning superior performance passives designed for easy installation and reliability.

**TELESTE**

## INDOOR RF PASSIVES / SOT-SERIES

| SPECIFICATIONS             |                    |                               |                                |
|----------------------------|--------------------|-------------------------------|--------------------------------|
| <b>Insertion Loss (dB)</b> |                    |                               |                                |
| <b>In - Out</b>            | SOT-203B-B         | SOT-204B-B/Lx                 | SOT-205B-B/Lx                  |
| Frequency (MHz)            |                    | (8/10/13 dB)                  | (8/10/13 dB)                   |
| 5 - 65                     | -                  | ≤3.5/3.3/2.0                  | ≥30                            |
| 65 - 204                   | -                  | -                             | ≥30                            |
| 470 - 862                  | -                  | Freq. 65-470 MHz ≤4.0/3.8/2.0 | Freq. 256-470 MHz ≤4.5/4.2/2.8 |
| 862 - 1006                 | -                  | ≤4.5/4.3/2.4                  | ≤4.7/4.5/2.6                   |
| 1006 - 1218                | -                  | ≤4.7/4.5/2.6                  | ≤4.8/4.6/2.8                   |
|                            |                    | ≤4.8/4.6/2.9                  | ≤5.0/4.8/3.1                   |
| <b>In - TV port</b>        |                    |                               |                                |
| 5 - 204                    | ≥30                | ≥30                           | ≥30                            |
| 256 - 470                  | ≤4.3               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 470 - 862                  | ≤4.4               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 862 - 1006                 | ≤4.6               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 1006 - 1218                | ≤4.9               | 8.5/10.5/13.5 ±1.5            | 8.5/10.5/13.5 ±1.5             |
| <b>In - Data port</b>      |                    |                               |                                |
| 5 - 10                     | ≤3.5               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 10 - 65                    | ≤3.7               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 65 - 470                   | ≤3.9               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 470 - 862                  | ≤4.2               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 862 - 1006                 | ≤4.4               | 8/10/13 ±1.5                  | 8/10/13 ±1.5                   |
| 1006 - 1218                | ≤4.7               | 8.5/10.5/13.5 ±1.5            | 8.5/10.5/13.5 ±1.5             |
| <b>Return Loss (dB)</b>    |                    |                               |                                |
| <b>Input</b>               |                    |                               |                                |
| 5 - 204                    | ≥18 <sup>(1)</sup> | ≥18 <sup>(1)</sup>            | ≥18 <sup>(1)</sup>             |
| 256 - 1218                 | ≥18 <sup>(1)</sup> | ≥18 <sup>(1)</sup>            | ≥18 <sup>(1)</sup>             |
| <b>TV-port</b>             |                    |                               |                                |
| 256 - 1218                 | ≥18 <sup>(1)</sup> | ≥18 <sup>(1)</sup>            | ≥18 <sup>(1)</sup>             |
| <b>Data port</b>           |                    |                               |                                |
| 5 - 1218                   | ≥18 <sup>(1)</sup> | ≥18 <sup>(1)</sup>            | ≥18 <sup>(1)</sup>             |
| <b>Output</b>              |                    |                               |                                |
| 5 - 1218                   | -                  | ≥18 <sup>(1)</sup>            | -                              |
| 256 - 1218                 | -                  | -                             | ≥18 <sup>(1)</sup>             |
| <b>Isolation (dB)</b>      |                    |                               |                                |
| <b>Data to TV</b>          |                    |                               |                                |
| 5 - 204                    | ≥50                | ≥50                           | ≥50                            |
| 256 - 1006                 | ≥22                | ≥22                           | ≥22                            |
| 1006 - 1218                | ≥20                | ≥20                           | ≥20                            |
| <b>Out to Data</b>         |                    |                               |                                |
| 5 - 10                     | -                  | ≥24                           | ≥45                            |
| 10 - 65                    | -                  | ≥30                           | ≥45                            |
| 65 - 204                   | -                  | -                             | ≥45                            |
| 470 - 862                  | -                  | Freq. 65-470 MHz ≥24          | Freq. 256-470 MHz ≥22          |
| 862 - 1006                 | -                  | ≥22                           | ≥22                            |
| 1006 - 1218                | -                  | ≥20                           | ≥20                            |
|                            |                    | ≥20                           | ≥20                            |
| <b>Out to TV</b>           |                    |                               |                                |
| 5 - 204                    | -                  | ≥45                           | ≥45                            |
| 256 - 862                  | -                  | ≥22                           | ≥22                            |
| 862 - 1006                 | -                  | ≥20                           | ≥20                            |
| 1006 - 1218                | -                  | ≥20                           | ≥20                            |

## SPECIFICATIONS

### Electromagnetic Compatibility (dB) <sup>(2)</sup>

| Input           | SOT-203B-B | SOT-204B-B/Lx | SOT-205B-B/Lx |
|-----------------|------------|---------------|---------------|
| Frequency (MHz) |            | (8/10/13 dB)  | (8/10/13 dB)  |
| 5-300           | ≥85        | ≥85           | ≥85           |
| 300-470         | ≥80        | ≥80           | ≥80           |
| 470-950         | ≥75        | ≥75           | ≥75           |
| 950-1218        | ≥55        | ≥55           | ≥55           |

### Surge Immunity

|           |      |      |      |
|-----------|------|------|------|
| Each port | 1 kV | 1 kV | 1 kV |
|-----------|------|------|------|

### General

|                         |         |                     |        |
|-------------------------|---------|---------------------|--------|
| Screening effectiveness | Class A | Impedance (nominal) | 75 Ohm |
|-------------------------|---------|---------------------|--------|

### Connections

|                      |  |
|----------------------|--|
| In/out<br>TV<br>Data | Cable clamp<br>IEC-male Barrier<br>F-female Barrier Lite |
|----------------------|--|

### Notes:

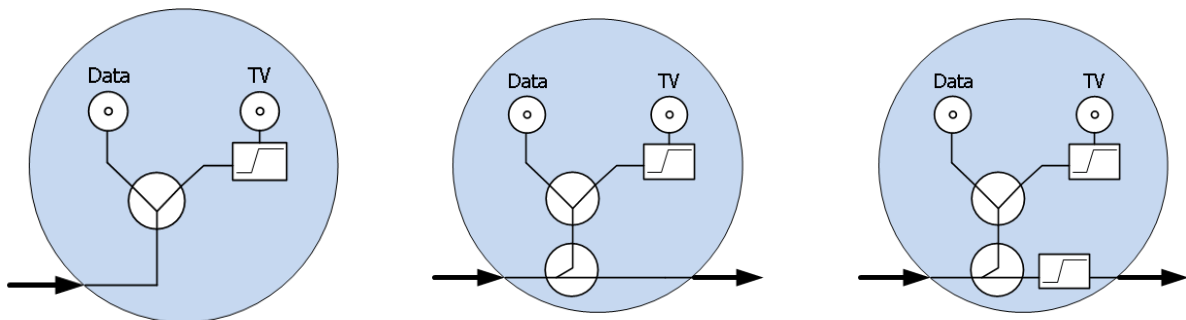
- (1) @ F >40 MHz -1,5 dB per octave, min.14 dB  
 (2) Class A, according to IEC 60728-2 2012

## BLOCK DIAGRAM

SOT-203B-B

SOT-204B-B/Lx

SOT-205B-B/Lx



## INDOOR RF PASSIVES / SOT-SERIES

### ORDERING INFORMATION

#### Wall Outlets:

|                 |   |
|-----------------|---|
| SOT-203B-B      | 2-port Wall Outlet, TV + Data, including BarriER Technology                           |
| SOT-204B-B/L 08 | 2-port Wall Outlet/Loop Through, 8 dB, TV + Data, including BarriER Technology        |
| SOT-204B-B/L 10 | 2-port Wall Outlet/Loop Through, 10 dB, TV + Data, including BarriER Technology       |
| SOT-204B-B/L 13 | 2-port Wall Outlet/Loop Through, 13 dB, TV + Data, including BarriER Technology       |
| SOT-205B-B/L 08 | 2-port Wall Outlet/HPF + Loop Through, 8 dB, TV + Data, including BarriER Technology  |
| SOT-205B-B/L 10 | 2-port Wall Outlet/HPF + Loop Through, 10 dB, TV + Data, including BarriER Technology |
| SOT-205B-B/L 13 | 2-port Wall Outlet/HPF + Loop Through, 13 dB, TV + Data, including BarriER Technology |

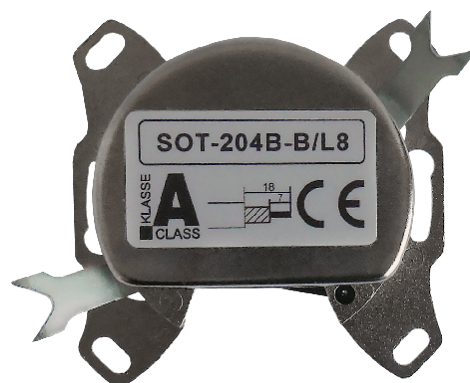
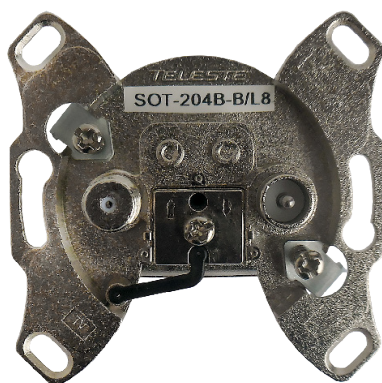
Note: Covers are included with all outlets.

#### Accessories:

|        |  |
|--------|--|
| SOF85A | Surface Mount Frame 84mm for SOT Wall Outlets. |
|--------|--|

### PICTURE GALLERY

**// Incorporates our  
unique Ingress and  
Egress Reduction  
BarriER Technology**



# TELESTE

TELESTE CORPORATION

[www.teleste.com](http://www.teleste.com)

SOT-SERIES\_180214

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