

Indoor RF passives

4SOT-SERIES

The 4SOT range of wall outlets is designed to allow operators to build their networks in the best way possible.

The 4SOT is a next generation wall outlet that utilises Teleste's unique cable clamping technology. This ensures excellent connection between the cable and the wall outlet and is achieved in a way that is easy and simple to install.

Features

- Frequency range up to 1.8 GHz, Docsis 4.0 compliant
- A wide range of Wall Outlet versions
- Terminated & loop through versions build with diplex split 204/258 MHz filters
- Electromagnetic compatibility exceeds Class A+ (= Class A +10 dB)
- Superior housing design ensures a fast and easy installation
- Push button construction for the coaxial cable inner conductor
- High port-port isolation

TELESTE

INDOOR RF PASSIVES / 4SOT-SERIES

| TECHNICAL SPECIFICATIONS | | | |
|----------------------------------|--------------------------|------------------------------------|------------------------------------|
| Insertion Loss (dB, Max.) | | | |
| In-Out | 4SOT-203B | 4SOT-204B/Lx | 4SOT-205B/Lx |
| Frequency range (MHz) | | (8/10/13 dB) | (8/10/13 dB) |
| 5 - 65 | - | 4.0/3.8/2.3 ⁽¹⁾ | ≥27.0 |
| 65 - 204 | - | - | ≥27.0 |
| 65 - 470 | - | 4.0/3.8/2.0 | - |
| 256 - 300 | - | - | 5.0/4.8/3.3 ⁽³⁾ |
| 300 - 470 | - | - | 4.5/4.2/2.6 |
| 470 - 862 | - | 4.5/4.3/2.4 | 4.8/4.3/2.8 |
| 862 - 1006 | - | 4.9/4.5/2.6 | 5.1/4.5/3.0 |
| 1006 - 1218 | - | 5.1/4.8/3.2 | 5.4/4.6/3.1 |
| 1218 - 1500 | - | 5.6/5.2/3.5 | 5.6/5.2/3.5 |
| 1500 - 1800 | - | 5.6/5.2/3.5 ⁽²⁾ | 5.6/5.2/3.5 ⁽²⁾ |
| In-Data | | | |
| 5 - 10 | 4.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 ⁽¹⁾ |
| 10 - 65 | 4.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 65 - 470 | 4.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 470 - 862 | 4.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 862 - 1006 | 4.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 1006 - 1218 | 4.5 ± 1.5 | 8.5/10.5/13.5 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 1218 - 1500 | 5.0 ± 1.5 | 9.0/11.0/14.0 ± 1.5 | 8.5/10.5/13.5 ± 1.5 |
| 1500 - 1800 | 5.0 ± 1.5 ⁽²⁾ | 9.0/11.0/14.0 ± 1.5 ⁽²⁾ | 9.5/11.0/14.0 ± 1.5 ⁽²⁾ |
| In-TV | | | |
| 5 - 204 | ≥30 | ≥30 | 30 |
| 256 - 470 | 4.0 ± 1.5 ⁽³⁾ | 8.0/10.0/13.0 ± 1.5 ⁽³⁾ | 8.0/10.0/13.0 ± 1.5 ⁽³⁾ |
| 470 - 862 | 4.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 862 - 1006 | 4.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 1006 - 1218 | 4.5 ± 1.5 | 8.5/10.5/13.5 ± 1.5 | 8.0/10.0/13.0 ± 1.5 |
| 1218 - 1500 | 5.0 ± 1.5 | 9.0/11.0/14.0 ± 1.5 | 8.5/10.5/13.5 ± 1.5 |
| 1500 - 1800 | 5.0 ± 1.5 ⁽²⁾ | 9.0/11.0/14.0 ± 1.5 ⁽²⁾ | 9.5/11.0/14.0 ± 1.5 ⁽²⁾ |
| Return Loss (dB, Min.) | | | |
| Input | 4SOT-203B | 4SOT-204B/Lx | 4SOT-205B/Lx |
| 5 - 10 | 16.0 | 16.0 | 16.0 |
| 10 - 204 | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| 256 - 1218 | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| 1218 - 1800 | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| TV-port | | | |
| 256 - 1218 | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| 1218 - 1800 | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| Data-port | | | |
| 5 - 10 | 14.0 | 14.0 | 14.0 |
| 10 - 1218 | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| 1218 - 1800 | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| Output | | | |
| 5 - 10 | - | 16.0 | - |
| 10 - 1218 | - | 18.0 ⁽⁴⁾ | - |
| 256 - 1218 | - | - | 18.0 ⁽⁴⁾ |
| 1218 - 1800 | - | 18.0 ⁽⁴⁾ | 18.0 ⁽⁴⁾ |
| Isolation (dB, Min.) | | | |
| TV to Data | 4SOT-203B | 4SOT-204B/Lx | 4SOT-205B/Lx |
| 5 - 204 | 55.0 ⁽⁵⁾ | 55.0 ⁽⁵⁾ | 50.0 ⁽⁵⁾ |
| 256 - 862 | 24.0 | 24.0 | 22.0 |
| 862 - 1006 | 24.0 | 24.0 | 22.0 |
| 1006 - 1218 | 20.0 | 20.0 | 20.0 |
| 1218 - 1500 | 20.0 | 20.0/18.0/18.0 | 18.0 |
| 1500 - 1800 | 15.0 | 15.0 | 15.0 |

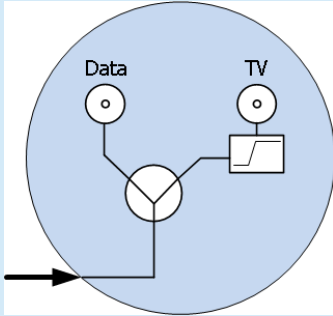
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| TECHNICAL SPECIFICATIONS | | | | |
|---|---|--|---|--|
| Isolation (dB, Min.) | | | | |
| Out to TV | 4SOT-203B | 4SOT-204B/Lx | 4SOT-205B/Lx | |
| 5 - 204 | - | 50.0/52.0/52.0 ⁽⁵⁾ | 40.0/45.0/45.0 ⁽⁵⁾ | |
| 256 - 862 | - | 24.0/26.0/26.0 | 22.0 | |
| 862 - 1006 | - | 24.0/26.0/26.0 | 20.0 | |
| 1006 - 1218 | - | 20.0/22.0/22.0 | 20.0 | |
| 1218 - 1500 | - | 20.0 | 18.0 | |
| 1500 - 1800 | - | 15.0 | 15.0 | |
| Out to Data | | | | |
| 5 - 10 | - | 22.0/25.0/25.0 | - | |
| 5 - 204 | - | - | 40.0/45.0/45.0 ⁽⁵⁾ | |
| 10 - 65 | - | 28.0/30.0/30.0 | - | |
| 65 - 470 | - | 24.0/26.0/26.0 | - | |
| 256 - 862 | - | - | 22.0 | |
| 470 - 862 | - | 24.0/26.0/26.0 | - | |
| 862 - 1006 | - | 24.0/26.0/26.0 | 20.0 | |
| 1006 - 1218 | - | 20.0/22.0/22.0 | 20.0 | |
| 1218 - 1500 | - | 20.0 | 18.0 | |
| 1500 - 1800 | - | 15.0 | 15.0 | |
| GENERAL SPECIFICATIONS | | | | |
| Impedance | 75 Ohm | Operating temperature | 0...55 °C | |
| Housing Material & Plating | Zinc die cast + White Bronze plating | Connectors | IN & OUT | cable clamp + center contact push button |
| | | | TV DATA | IEC male F female |
| Back cover | Galvanized steel | Material & Plating | IN/OUT | Beryllium Copper + Nickel plating |
| | | | IEC male pin | Brass + Nickel plating |
| | | | F-spring | Beryllium Copper + Nickel plating |
| | | | Clamp Contact spring | Stainless Steel |
| Intermodulation distortion DATA & TV ports ⁽⁶⁾ (dBc, Min.) (2f1, f1+f2, 2f2) before surge after 25V surge after 1kV surge | -120.0 ^(a) -120.0 ^(b) -110.0 ^(c) | Electromagnetic Compatibility ⁽⁷⁾ (dB, Min.) Class A+ (= Class A +10dB) | 5 - 300 300 - 470 470 - 950 950 - 2000 | 95.0 90.0 85.0 65.0 |
| Cables range (cable structure dependent) | Input/Output | Acceptance range | center pin = 0.4~1.1 mm outer conductor = 3.5~6.0 mm outer jacket = 4.1~7.2 mm | |
| | | Retraction force | center pin retraction force >20N @ 0.6 - 1.13 mm pin diameter outer conductor retraction force >50N @ 3.2 - 5.8 conductor diameter | |
| NOTES | | | | |
| <p>(1) In the range 5 - 10 MHz with additional 0.5 dB loss. (2) In the range 1700 - 1800 MHz with additional 0.5 dB loss. (3) In the range 256 - 260 MHz with additional 0.5 dB loss. (4) At F ≥ 40 MHz -1.5 dB/ oct. (5) In filter corner range 180 - 204 MHz with 2.0 dB relaxation. (6) Two carriers (60 & 65 MHz and 199 & 204 MHz), signal level @120 dBμV. (a) No surge. (b) Measured after 10 pulses 25VDC (1,2/500μS) have been applied to each port. (c) Measured after 1 pulse of 1 kV (1.2/50 μsec) have been applied to each port. (7) EMC exceeding Class A+ (= Class A +10 dB), according to IEC60728-2.</p> | | | | |

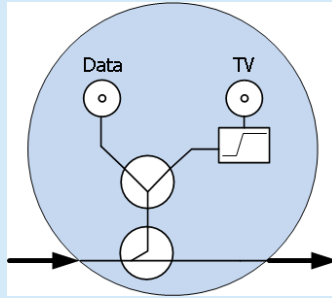
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BLOCK DIAGRAM

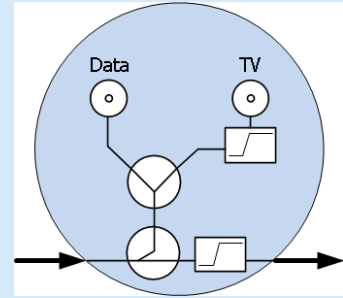
4SOT-203B



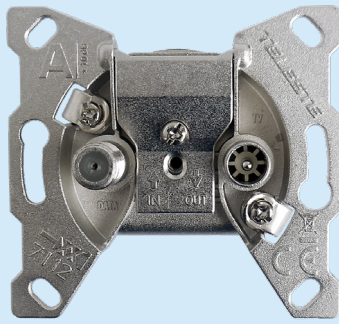
4SOT-204B/Lx



4SOT-205B/Lx



PICTURE GALLERY



ORDERING INFORMATION

Wall Outlets:

4SOT-203B
 4SOT-204B/L08
 4SOT-204B/L10
 4SOT-204B/L13
 4SOT-205B/L08
 4SOT-205B/L10
 4SOT-205B/L13

1.8GHz 2 Port Wall Outlet, TV & Data
 1.8GHz 2 Port Wall Outlet, TV & Data, 8dB Loop Through
 1.8GHz 2 Port Wall Outlet, TV & Data, 10dB Loop Through
 1.8GHz 2 Port Wall Outlet, TV & Data, 13dB Loop Through
 1.8GHz 2 Port Wall Outlet, TV & Data, 8dB Loop Through + HPF
 1.8GHz 2 Port Wall Outlet, TV & Data, 10dB Loop Through + HPF
 1.8GHz 2 Port Wall Outlet, TV & Data, 13dB Loop Through + HPF

Note: Covers are included with all outlets.

Accessories:

SOF85A

Surface Mount Frame 84mm for 4SOT Wall Outlets

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TELESTE CORPORATION
www.teleste.com

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