

Diplexer Cellular and Wi-Fi

2501.17.0094

Properties

- Combines W-LAN and Cellular on same Distributed Antenna System
- To minimize the effects of the Injector to the DAS the inputs are well isolated and have minimal insertion loss. The W-LAN Injector has been designed using passive, proprietary techniques to ensure minimal loss and high reliability.
- Corner holes are provided for simple mounting to a surface or cable tray.



| Port defenition (common) |           |               |           |
|--------------------------|-----------|---------------|-----------|
| Port designation         | Interface | Gender        | Impedance |
| J3                       | N         | jack (female) | 50 Ω      |

| Electrical bands           |                       |                     |
|----------------------------|-----------------------|---------------------|
|                            | Band 1                | Band 2              |
| Frequency range            | 2400 GHz ... 2500 GHz | 80 GHz ... 2170 GHz |
| Return loss                | ≥ 17 dB               | ≥ 17 dB             |
| Insertion loss             | ≤ 0.6 dB              | ≤ 0.3 dB            |
| Composit power max         | 8 W                   | 150 W               |
| Peak envelope power        |                       | 3000 W              |
| Intermodulation distortion | ≤ -153 dBc            | ≤ -153 dBc          |
| @ 2 x carrier power        | 43 dBm                | 43 dBm              |
| Port designation           | J1                    | J2                  |
| Connector series           | N                     | N                   |
| Gender                     | jack (female)         | jack (female)       |

**Diplexer Cellular and Wi-Fi**

2501.17.0094

| Electrical remarks |   |
|--------------------|---|
| Remarks            | DC Path - Passband J1 to J3: Isolated<br>DC Path - Passband J2 to J3: 2A Max<br>J1 to J2 Isolation: > 50dB<br>VSWR, all ports: < 1.3:1<br>Intermod. Distortion: < 150dBc typical (test with 2x +43 dBm tones)<br>*DC path: DC to 20 MHz |

| Mechanical data                        |                        |
|--|------------------------|
| Weight                                 | 0.9 kg                 |
| Width                                  | 122.22 mm              |
| Height                                 | 32.26 mm               |
| Depth                                  | 179.71 mm              |
| Housing material and surface treatment | Aluminium / Passivated |

| Environmental data             |                |
|--------------------------------|----------------|
| Environment (application)      | Indoor         |
| Operation temperature          | 0 °C ... 50 °C |
| Storage temperature            | 0 °C ... 50 °C |
| Transport temperature          | 0 °C ... 50 °C |
| Ingress protection (IP Rating) | IP64           |

| Ordering Information Table |                  |
|----------------------------|------------------|
| Item number                | Item description |
| 85029272                   | 2501.17.0094     |

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.

DOCUMENT PIM-P2447 / Date of publication: 25.04.2025 / uncontrolled copy