

# Datasheet

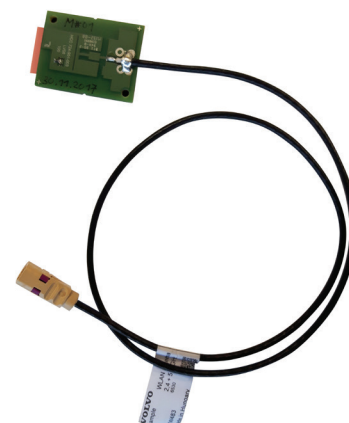
## ANTENNA INTERIOR WLAN

## ANTENNA WLAN INTERIOR

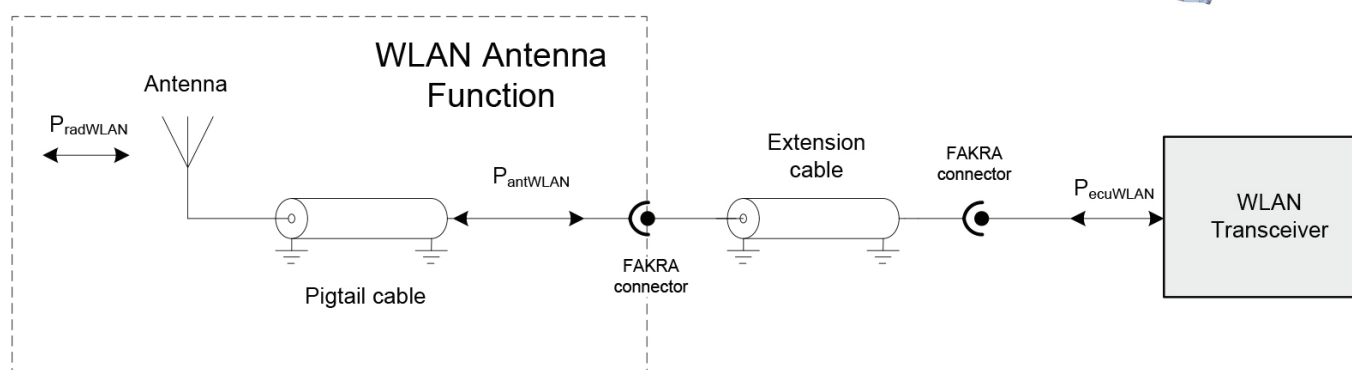
Pt no.

23311706 / 920 638-001

- Passive transmitting and reception antennas for BT/WLAN(2.4/5 GHz)
- Low body height max. 5 mm
- Coverage of frequency band BT/WLAN(2.4/5 GHz)
- Mounting on plastic and glass materials



Subject to alterations



### Technical data\*

| Parameter                | TR reference                           | Remarks                                    | Units   | Values                         |
|--------------------------|----------------------------------------|--------------------------------------------|---------|--------------------------------|
| Dimensions / Package     |                                        |                                            |         | 35x45x5 mm                     |
| Housing Protection Class | REQ 22379848-6 v1<br>REQ 22379848-8 v1 | ISO20653                                   |         | IK 5k2                         |
| Operating Temperature    | REQ 22379848-9 v1                      |                                            |         | -40- +85°C                     |
| Storage Temperature      |                                        |                                            |         | -40- +85°C                     |
| Cable type               | REQ 22379848-41 v1                     | Dacar 302                                  | dB/m    | < 0.7 @ 2.5GHz<br>< 1.2 @ 6GHz |
| <b>WLAN</b>              |                                        |                                            |         |                                |
| Parameter                | TR reference                           | Frequency ranges                           | Units   | Values                         |
| Frequency bands          | REQ 22379848-53 v1                     | 2400 ≤ f ≤ 2485 MHz<br>5150 ≤ f ≤ 5925 MHz |         |                                |
| Return Loss              | REQ 22379848-54 v1                     | 2400 - 2485 MHz<br>5150 - 5925 MHz         | typ. dB | ≥ 8                            |
| Polarization             | REQ 22379848-60 v1                     | VP (antenna mounted vertically)            |         | linear                         |

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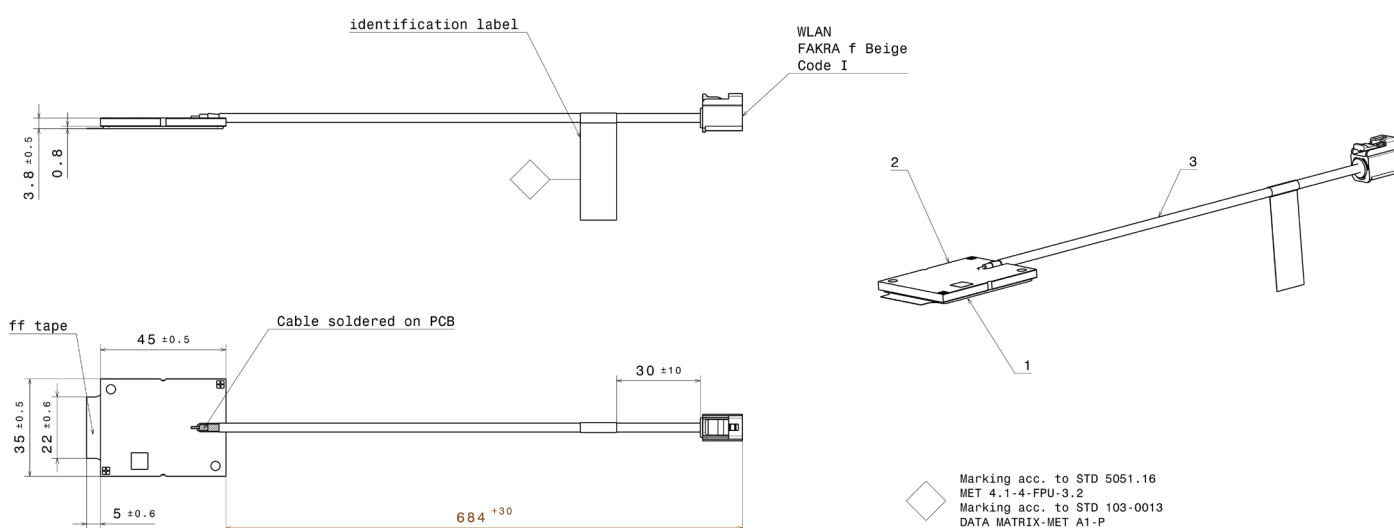
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#### Technical data\*

| Parameter              | TR reference       | Remarks                            | Units      | Values                    |
|------------------------|--------------------|------------------------------------|------------|---------------------------|
| Antenna Gain (Average) | REQ 22379848-55 v1 | 2400 - 2485 MHz<br>5150 - 5925 MHz | typ. dBi   | $\geq -1.5$<br>$\geq 0,5$ |
| Impedance              | REQ 22379848-54 v1 |                                    | $\Omega$   | 50                        |
| Diagnosis Resistor     | REQ 22379848-67 v1 |                                    | k $\Omega$ | 51                        |
| Power Handling         | REQ 22379848-48 v1 |                                    | dBm        | $\geq 30$                 |

\* All technical requirements are according to 22379848.06 "Antenna System P2593/P2594 Multifunctional & Single function antennas"

#### Technical drawings



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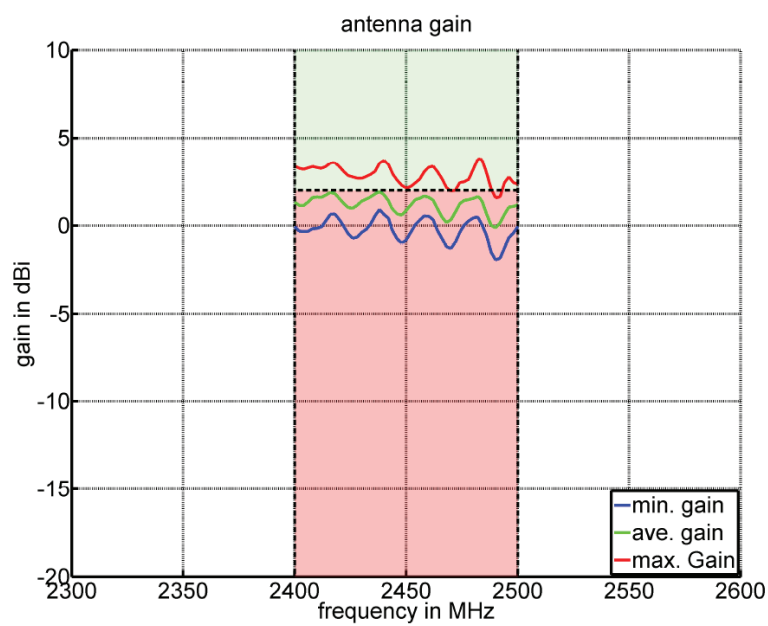
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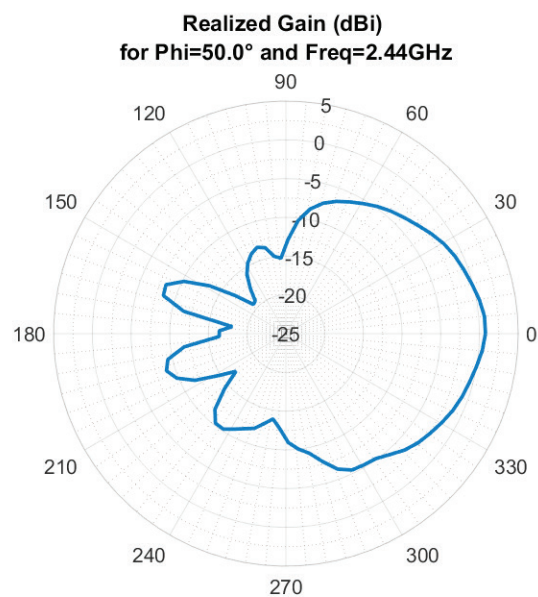
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### Antenna diagrams

#### Gain



#### Radiation pattern



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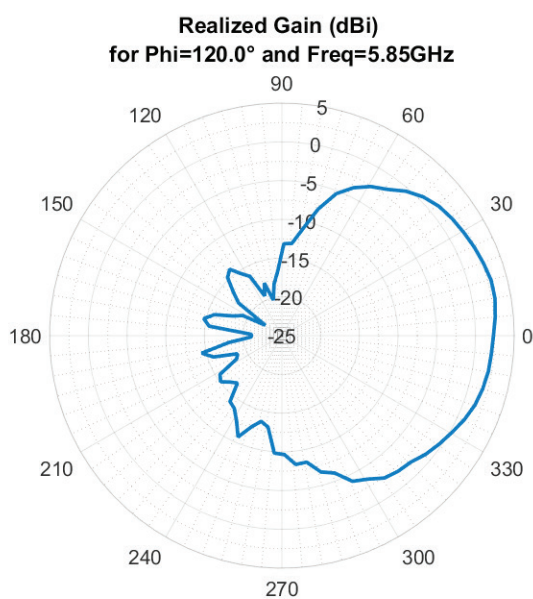
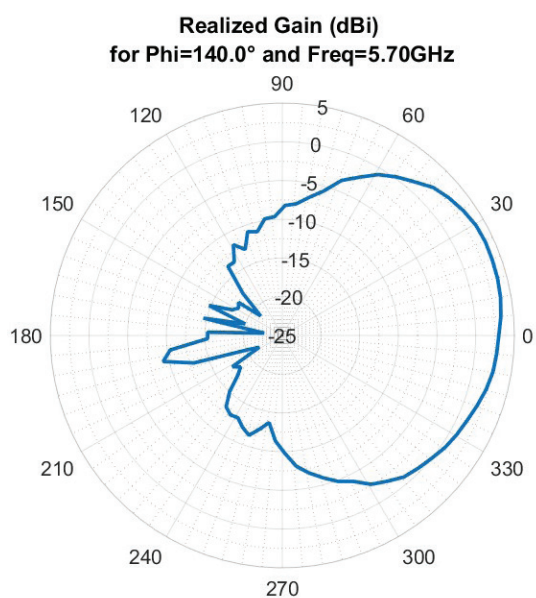
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### Antenna diagrams

#### Radiation pattern



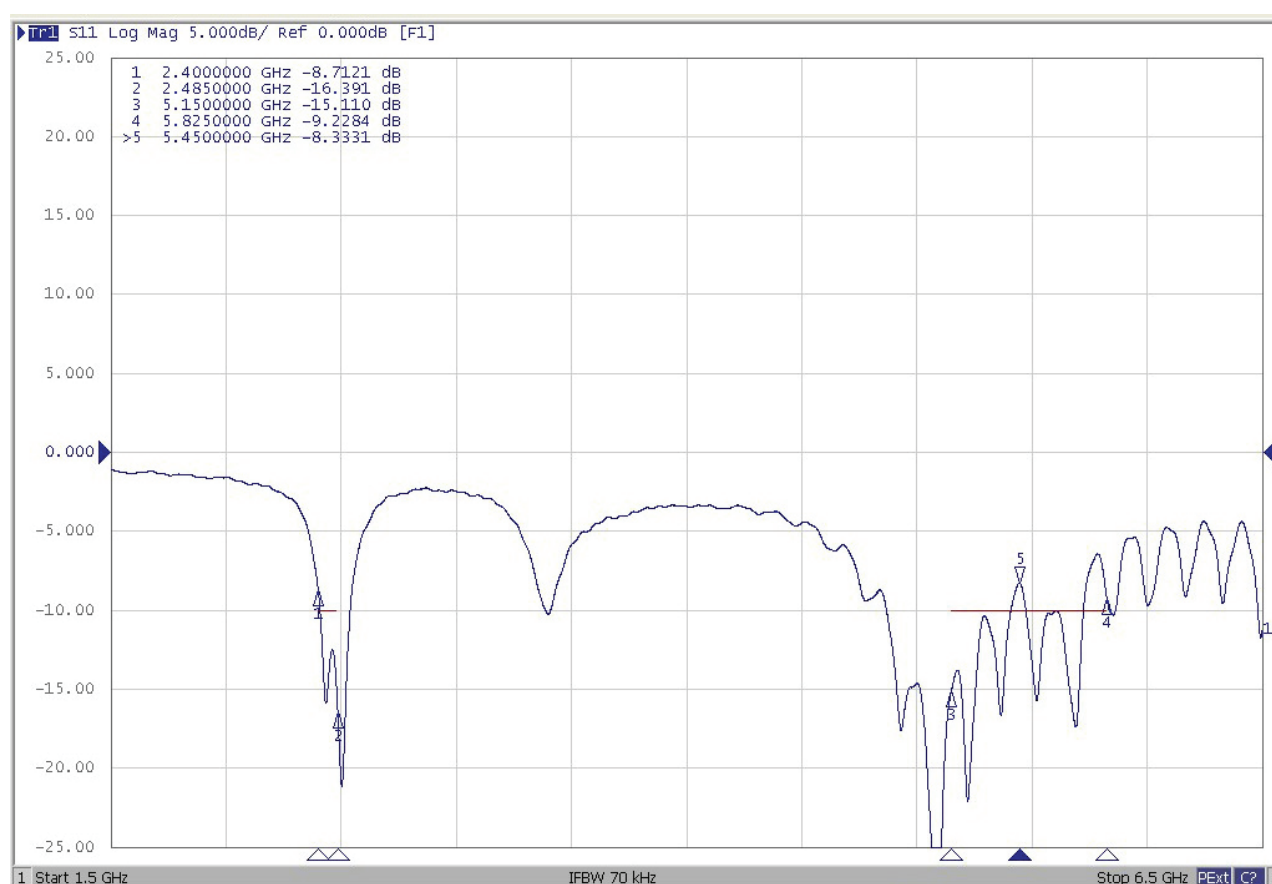
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### Antenna diagrams

#### Return loss



### Frequency Table

| Service  | Lower Limit | Upper Limit |
|----------|-------------|-------------|
| WLAN 2,4 | 2400 MHz    | 2485 MHz    |
| WLAN 5   | 5150 MHz    | 5925 MHz    |