

Product Information

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HFS-860 with further Tip-Style for Reverse-SMA-Contacting

With the HFS-860 303 150 A 5343 ER probe INGUN has enhanced its RF product range with a new tip-style for contacting Reverse-SMA jacks. The probe is specified up to a maximum frequency of 6 GHz. R-SMA-jacks are widely used for Wireless-LAN technology. The tip style has been developed in a way which allows contacting of large quantities of Units-Under-Test very efficiently and quickly - without risk of damaging the connector. Thus the probe is perfectly suited for the production test of WLAN-products for consumer electronics applications.

The HFS probe features excellent matching and transmission characteristics up to the specified frequency limit. The return loss can be kept well above 20 dB up to 5 GHz (VSWR < 1.2). The RF characteristics are acquired using a Vector Network Analyzer. For this measurement the probes are contacted on a corresponding RSMA-interface (RSMA-to-SMA adaptor).

Based on a modular design approach, the probes are interchangeable when the customer switches to other interfaces (e.g. a change to TNC-type due to a production-process-change). Subsequently, the only thing that has to be done is to replace the HFS with an in-series type which has a different tip-style. This exchange can be done without greater effort and within minutes - and avoids otherwise inevitable modifications.

Typical applications:

- Transmitting or detecting an RF signal
- Impedance measurements
- Filter-characteristic measurements
- Pass/fail measurements

Mechanische Daten:

Working stroke:	4,0 mm (Outer conductor) 2,0 mm (Inner conductor)
Maximum stroke:	5,0 mm (Outer conductor) 3,7 mm (Inner conductor)
Spring force at working stroke:	4,0 N (Outer conductor) 1,3 N (Inner conductor)
Temperature range:	-40°C up to +80°C (-40°F up to +176°F)

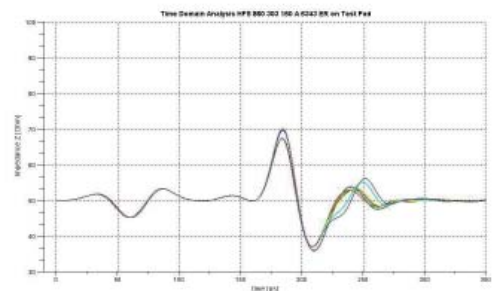
Electrical Data:

Impedance:	50 Ω
Frequency range:	up to 6 GHz

Additional diagrams like attenuation (transmission) and many more as well as calibration data are available on request.

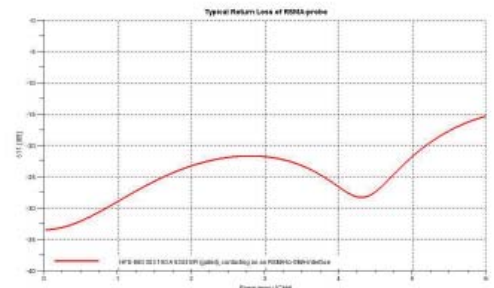


HFS-860 303 150 A 5343 ER



Time Domain Analysis:

Shows the probe's impedance behavior. At $t \approx 50$ ps transition from test adaptor to HFS, at $t \approx 188$ ps transition from the tip to a contacting point



Return Loss:

Shows the matching characteristics of the probe, i.e. how well the probe is matched to nominal impedance vs. frequency