Waveguide Based RF Power Measurement System
FM-DCR26-PD-DU

General Information

The waveguide-based RF measurement system **FM-DCR26-PD-DU** provides the user a precision stand-alone concept to monitor and document the forward and reverse RF power in the frequency range from 2400 MHz up to 2500 MHz.

To separate the forward and revers RF power the directional coupler **FM-DCR26-60** is used. The power detector **FM-PD2CH2450S** can be directly connected to the directional coupler. With a costumer specific calibration is a precision RF power measurement in a power range from 10 Watt up to 10000 Watt possible.

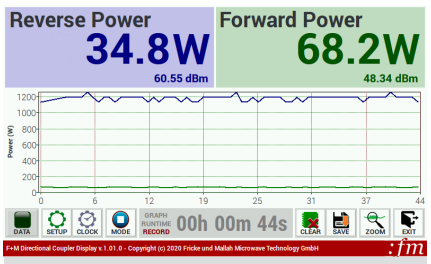
Through the digital output of the power detector the Display Unit **FM-DUXL-PD-00** can be easily connected. The display unit has the capability to advertisement the actual forward and reverse RF power as well as the possibility to record the RF power over the time. The data set can be saved as spreadsheet-format on a USB-Stick for postprocessing.

Specification

Frequency Range	2400MHz to 2500MHz
Power Supply Unit[1] (Measurement and Display)	24 V_{DC}
Absolute maximum RF input power[2]	70 dBm (10 kW)
Waveguide Flange of the Directional Coupler	IEC153: R26 / EIA: WR340
Measurement Unit Size (WxHxD)	204 x 100 x 53.8 mm
Display Case (WxHxD)	225 x 130 x 55 mm
Directional Coupler length	200 mm

[1] Including corresponding plug

[2] The maximum power depends on the customer-specific calibration, as the range in which the calibration is performed significantly influences the accuracy.



Record of the RF power over the time.

Power Detector Device **FM-PD2CH2450S**

Display Unit for Power Detector **FM-DUXL-PD-00**

Directional Coupler R26 **FM-DCR26-60**

Fricke und Mallah Microwave Technology GmbH
Werner-Nordmeyer-Str. 25 | 31226 Peine | Germany
Tel.: +49 (0) 5171 54 57-0 | Fax: +49 (0) 5171 54 57-26
info@microwaveheating.net | www.microwaveheating.net

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