

# R&S®DDC25

# DUAL DIRECTIONAL COUPLER

## Specifications

Data Sheet  
Version 06.00

**ROHDE & SCHWARZ**

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Rohde & Schwarz equipment is designed for reliable operation up to an altitude of 2000 m above sea level, and for transport up to an altitude of 4600 m above sea level.

All specified parameters are valid for an ambient temperature of +25 °C, input impedance of 50 Ω and output impedance of 50 Ω.  
Data without tolerance limits is not binding.

RoHS Europe, Directive 2011/65/EU: Equipment category 9, fulfilled without any exceptions.

WEEE Europe, Directive 2002/96/EC:

No disposing with unsorted municipal waste; no return with collection of waste electrical and electronic equipment from private households. Separate collection necessary. Ask Rohde & Schwarz representatives about recovery.

# Definitions

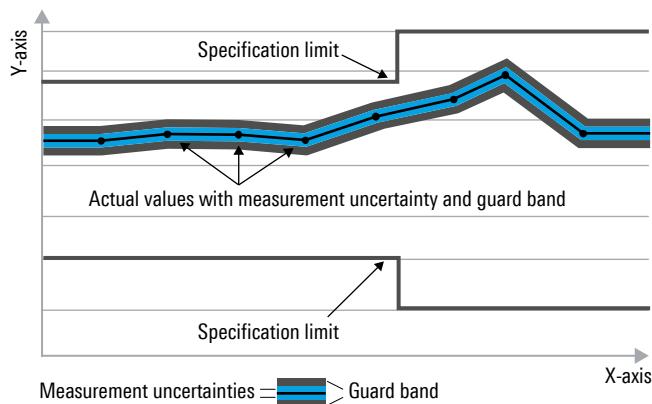
## General

Product data applies under the following conditions:

- Three hours storage at ambient temperature followed by 30 minutes warm-up operation
- All specified parameters are valid for an ambient temperature of +25 °C
- Specified environmental conditions met
- Recommended calibration interval adhered to
- All internal automatic adjustments performed, if applicable

## Specifications with limits

Represent warranted product performance by means of a range of values for the specified parameter. These specifications are marked with limiting symbols such as  $<$ ,  $\leq$ ,  $>$ ,  $\geq$ ,  $\pm$ , or descriptions such as maximum, limit of, minimum. Compliance is ensured by testing or is derived from the design. Test limits are narrowed by guard bands to take into account measurement uncertainties, drift and aging, if applicable.



## Specifications without limits

Represent warranted product performance for the specified parameter. These specifications are not specially marked and represent values with no or negligible deviations from the given value (e.g. dimensions or resolution of a setting parameter). Compliance is ensured by design.

## Typical data (typ.)

Characterizes product performance by means of representative information for the given parameter. When marked with  $<$ ,  $>$  or as a range, it represents the performance met by approximately 80 % of the instruments at production time. Otherwise, it represents the mean value.

## Nominal values (nom.)

Characterize product performance by means of a representative value for the given parameter (e.g. nominal impedance). In contrast to typical data, a statistical evaluation does not take place and the parameter is not tested during production.

## Measured values (meas.)

Characterize expected product performance by means of measurement results gained from individual samples.

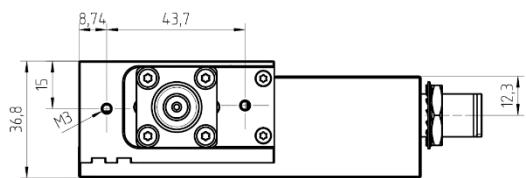
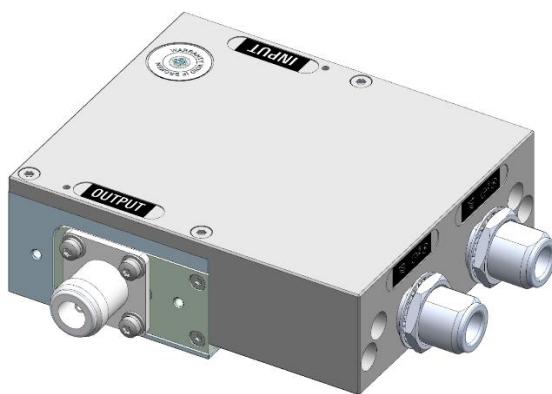
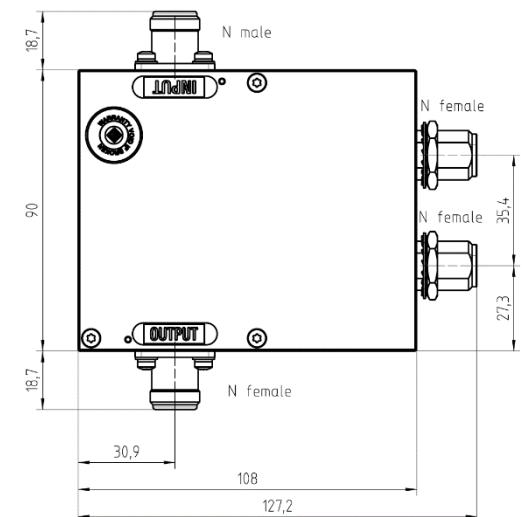
## Uncertainties

Represent limits of measurement uncertainty for a given measurand. Uncertainty is defined with a coverage factor of 2 and has been calculated in line with the rules of the Guide to the Expression of Uncertainty in Measurement (GUM), taking into account environmental conditions, aging, wear and tear.

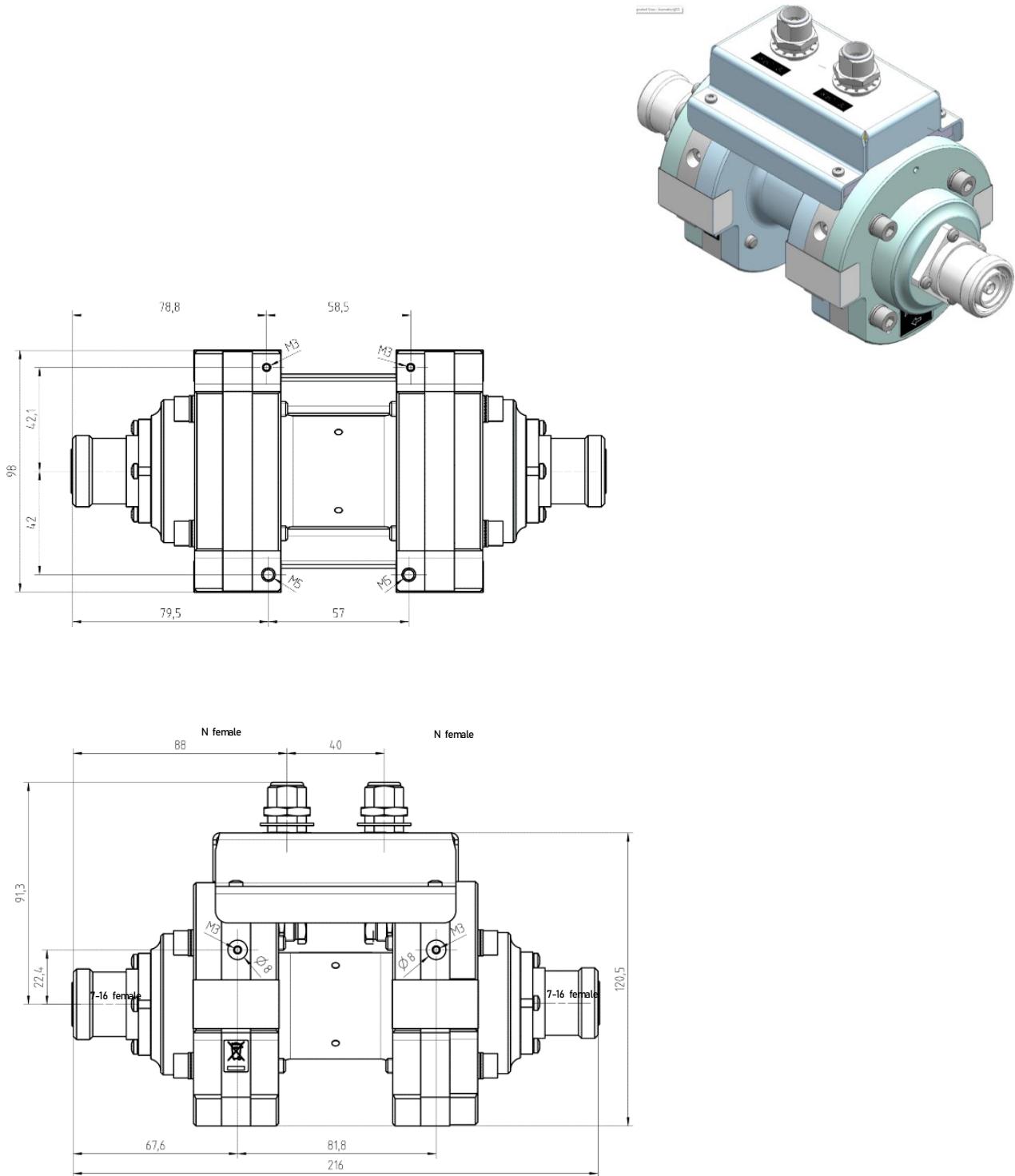
Device settings and GUI parameters are indicated as follows: "parameter: value".

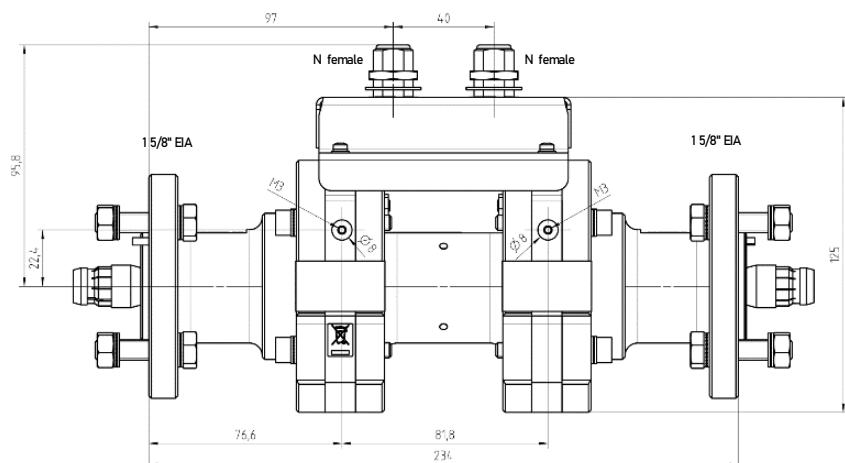
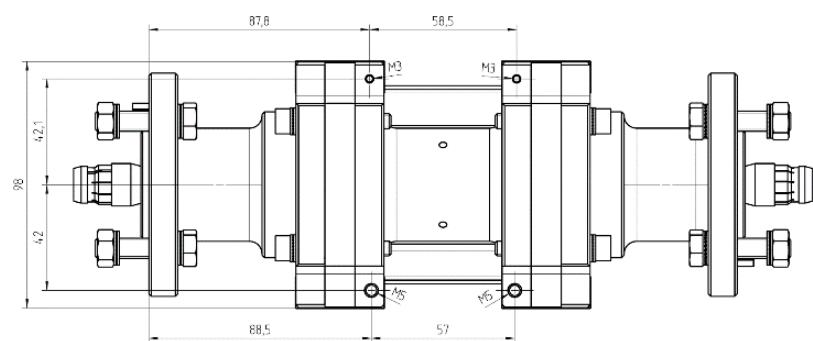
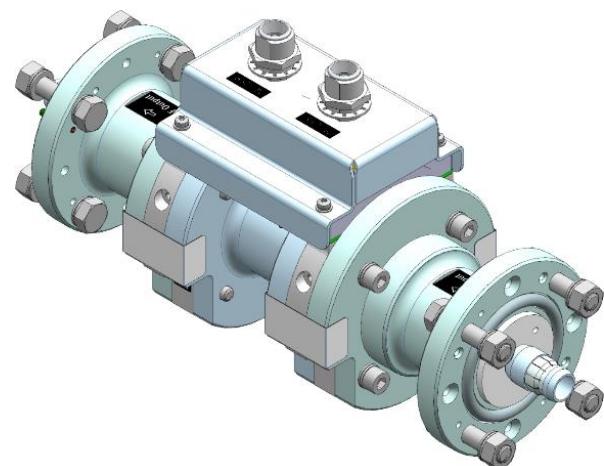
Typical data as well as nominal and measured values are not warranted by Rohde & Schwarz.



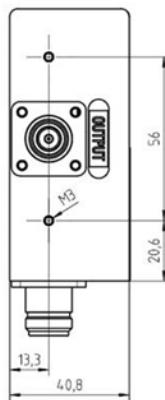
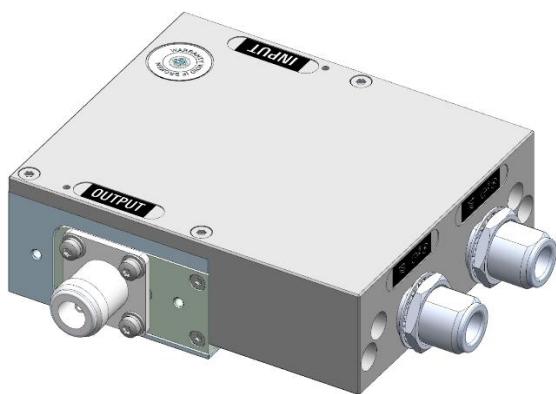
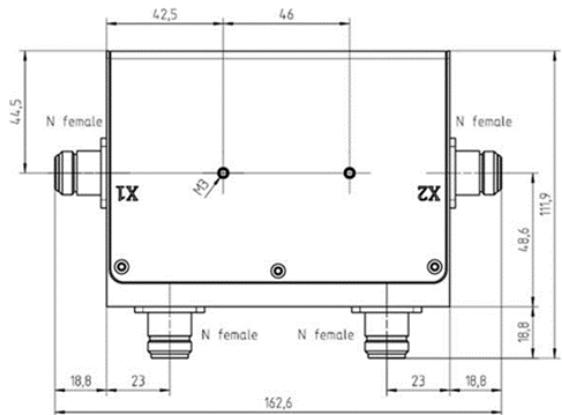
**R&S®DDC25-A54**

## R&S®DDC25-A63

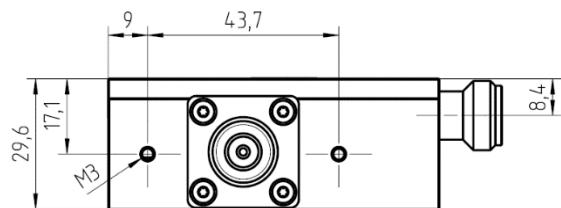
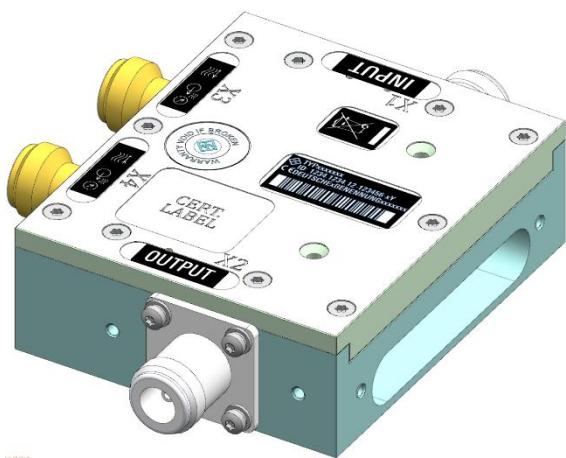
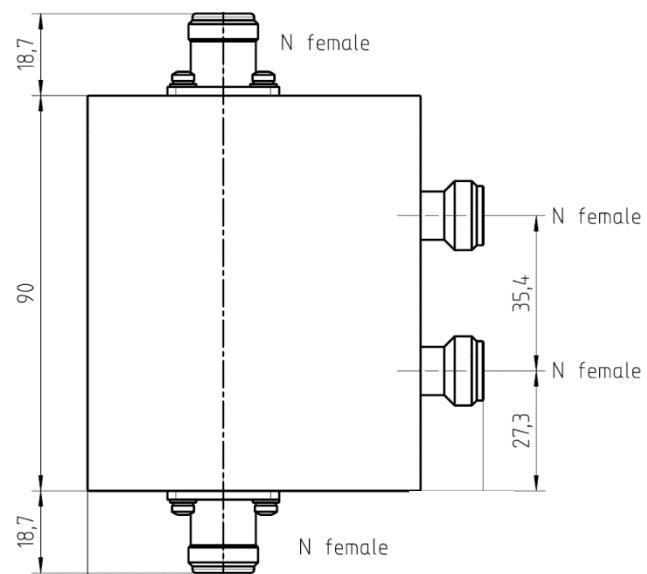


**R&S®DDC25-A67**

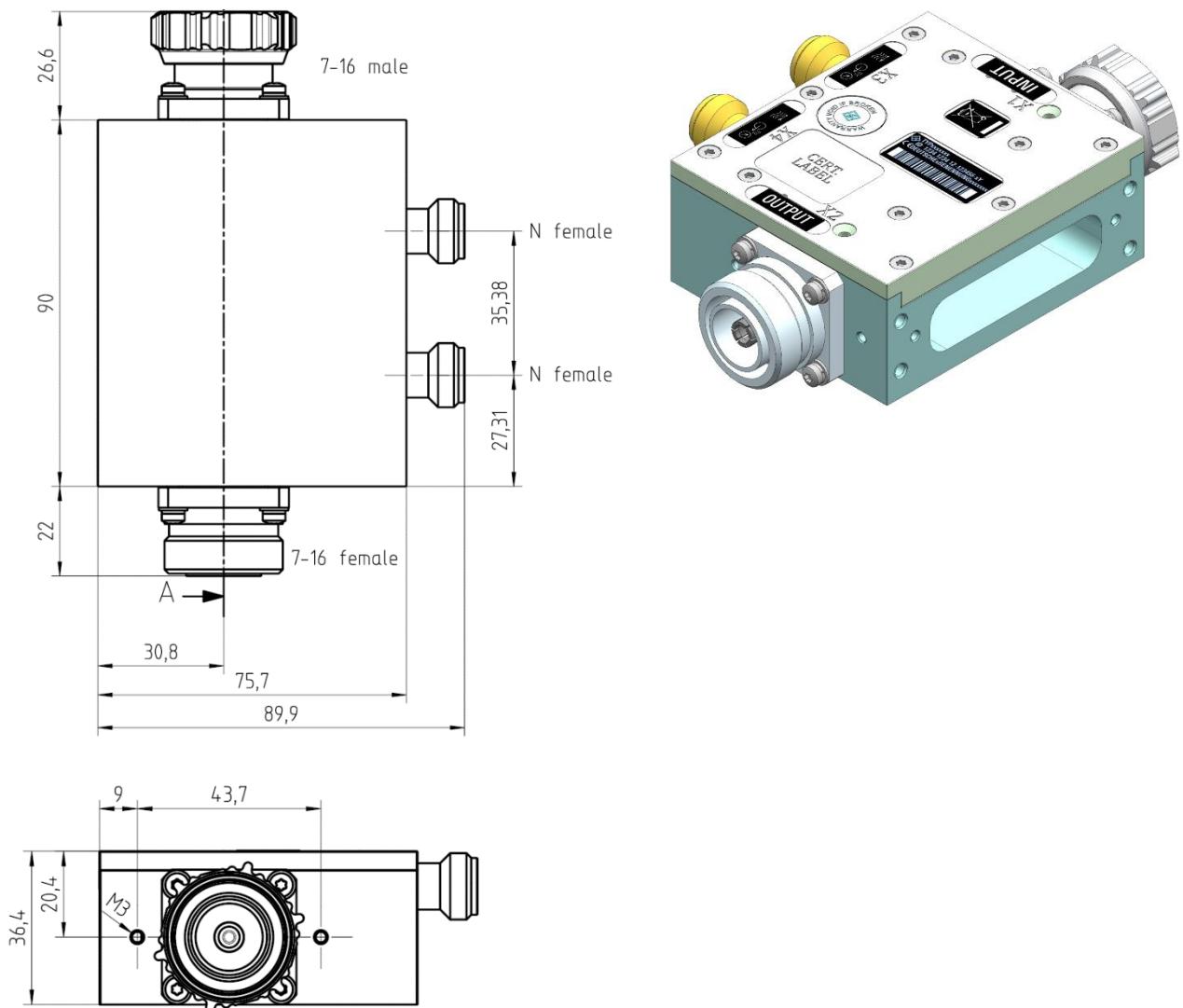


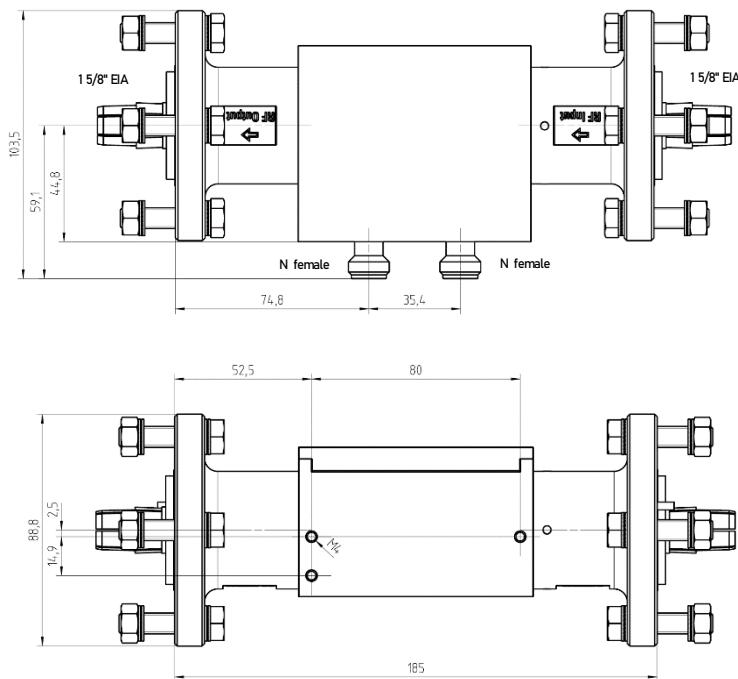
**R&S®DDC25-AB55**



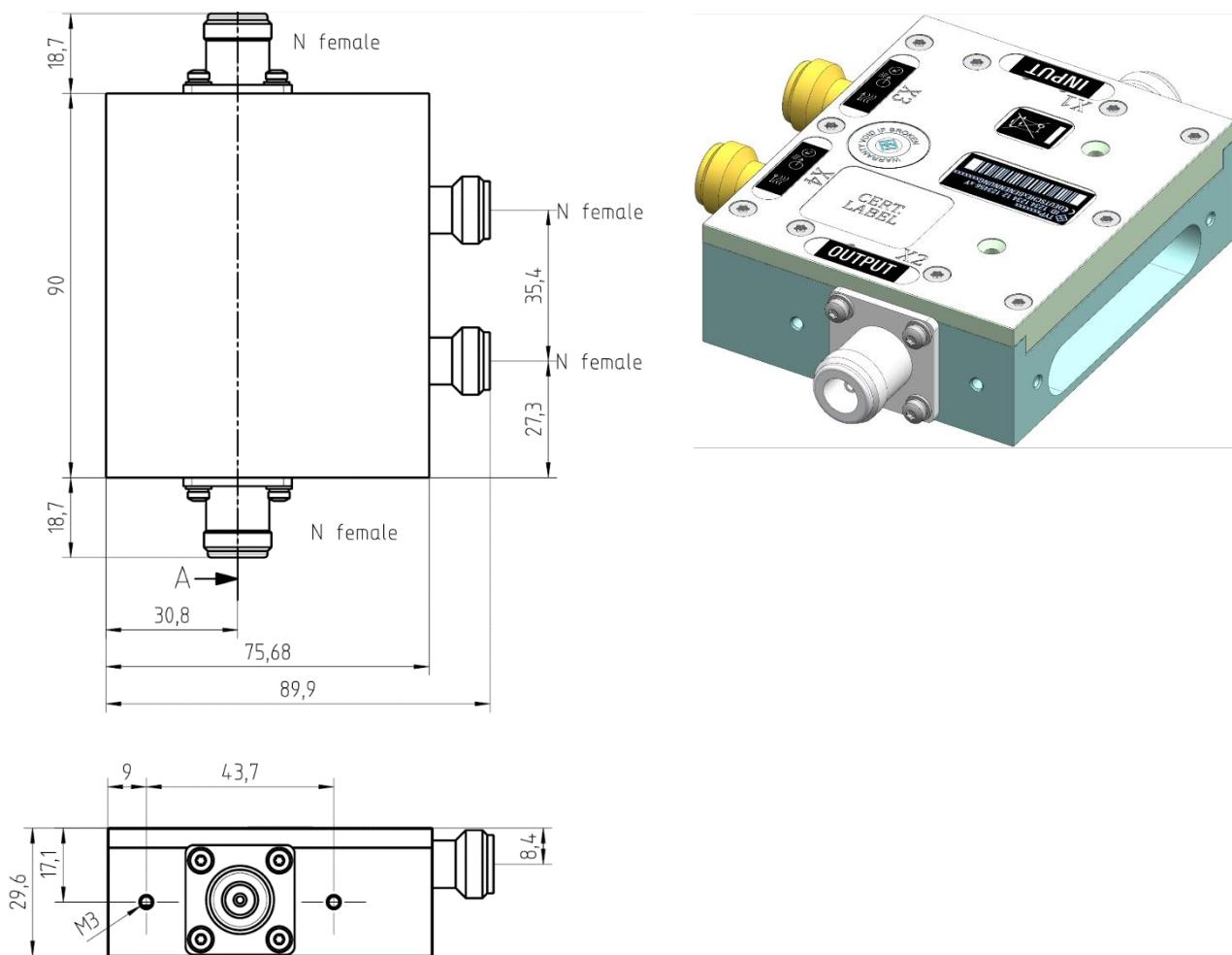
**R&S®DDC25-BC59**

## R&S®DDC25-BC60

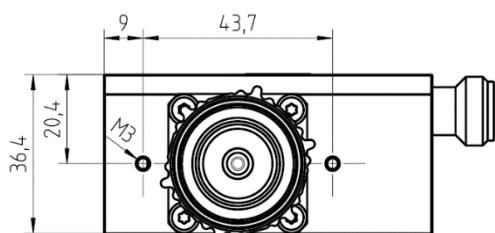
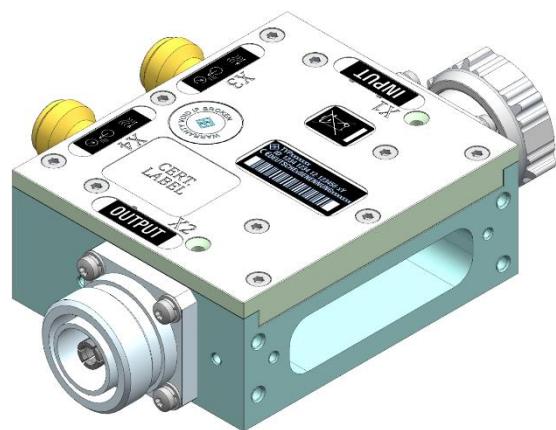
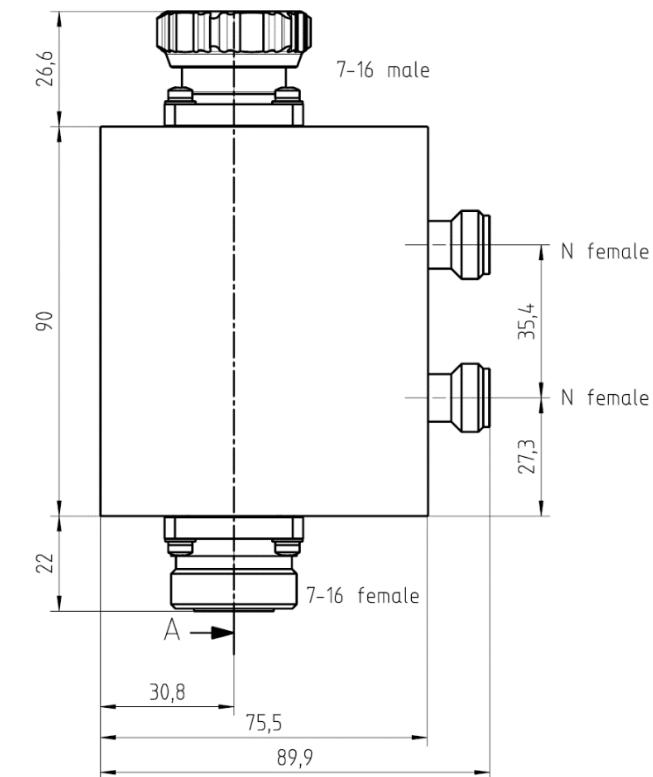


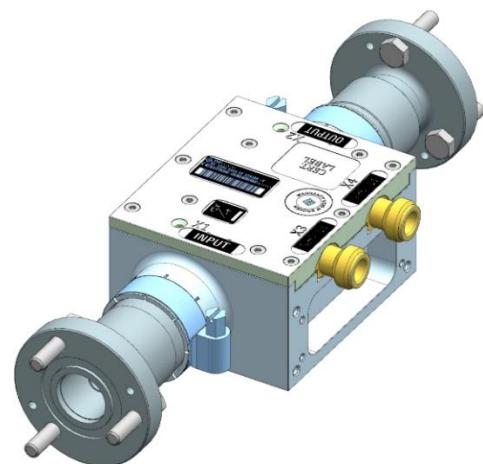
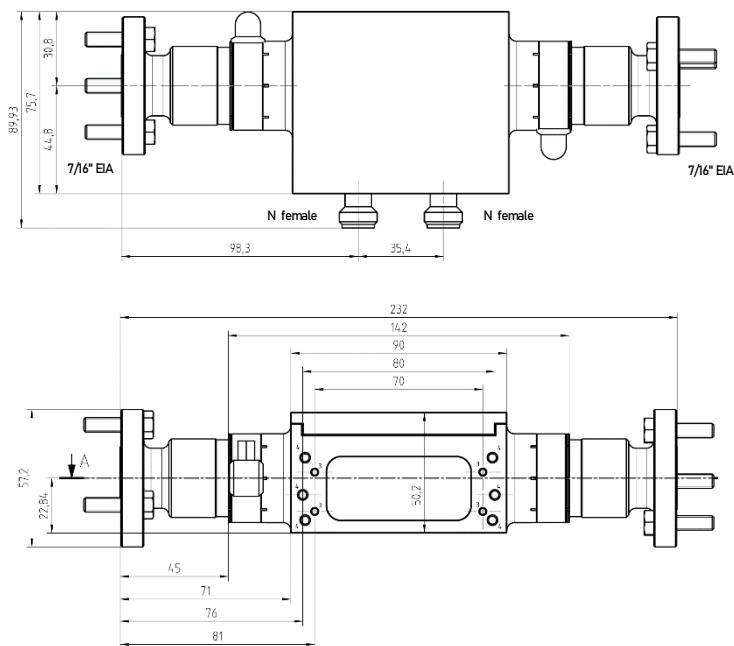
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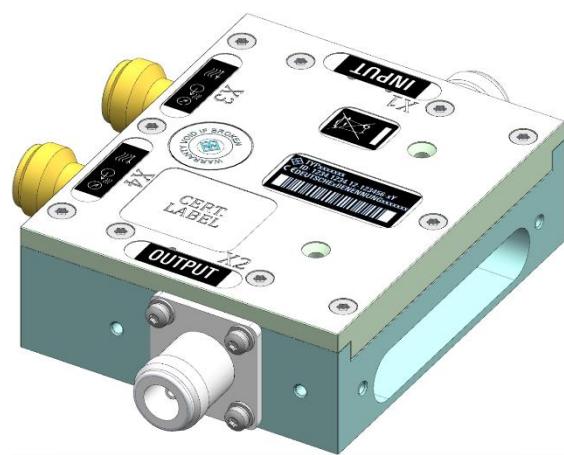
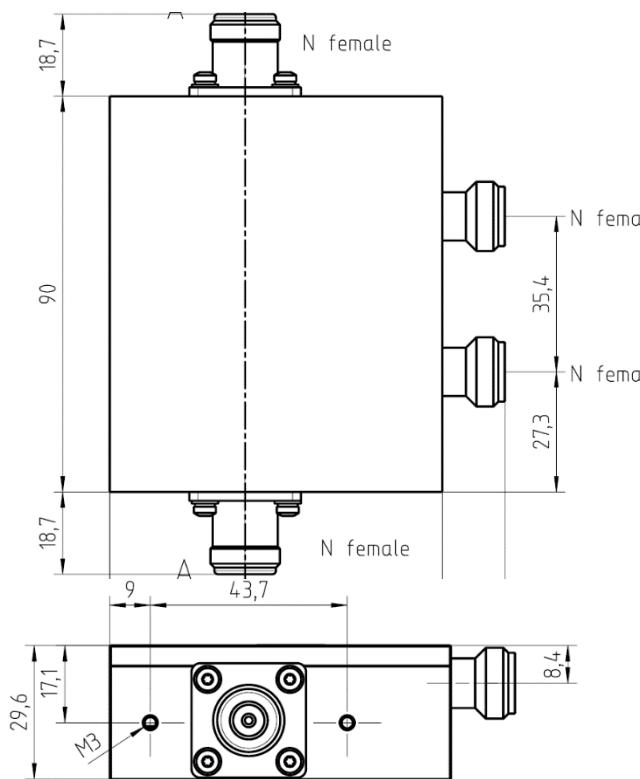
**R&S®DDC25-D56**

## R&S®DDC25-D59

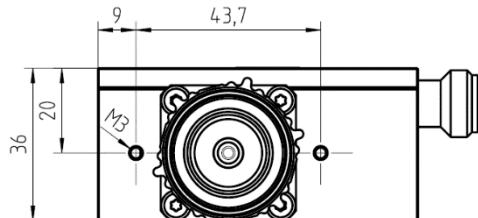
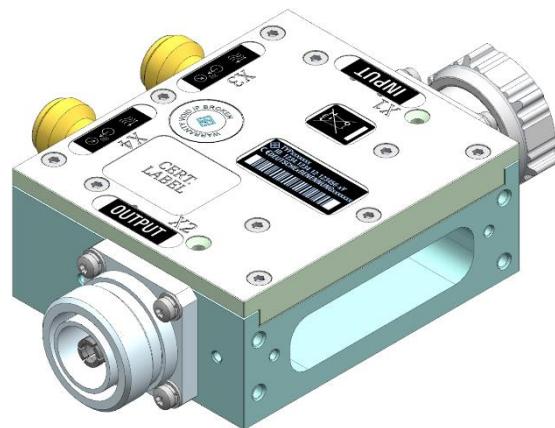
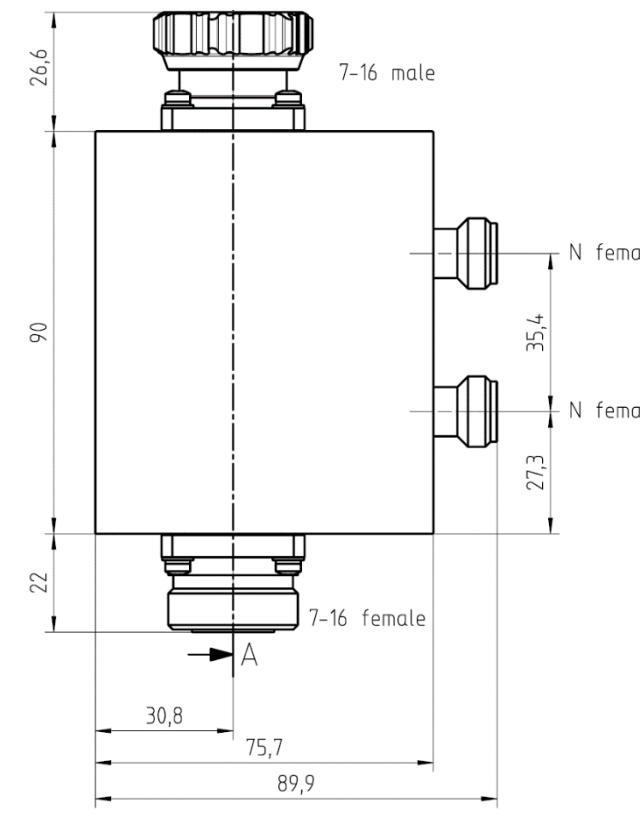


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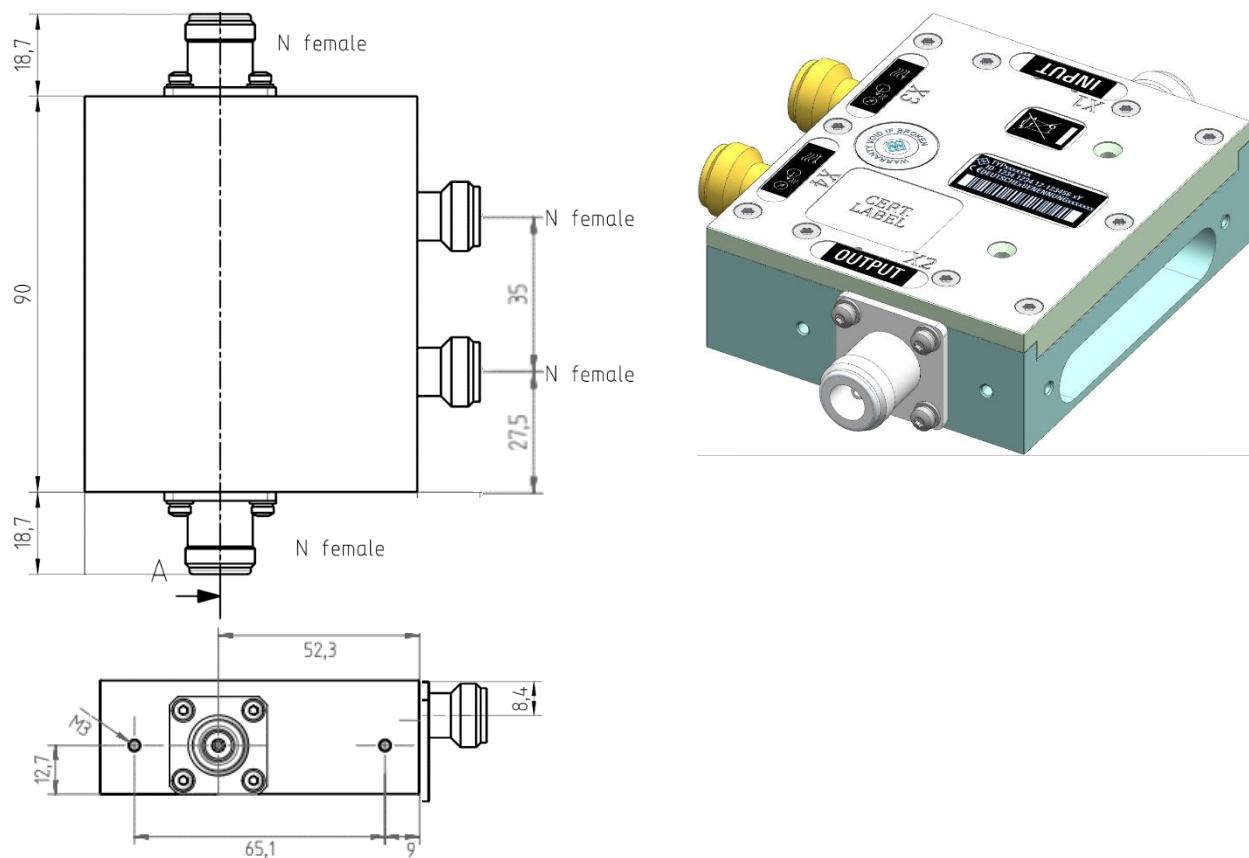
**R&S®DDC25-E55**

## R&S®DDC25-E58

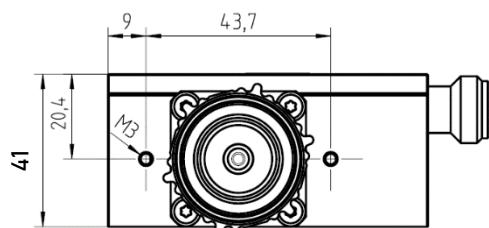
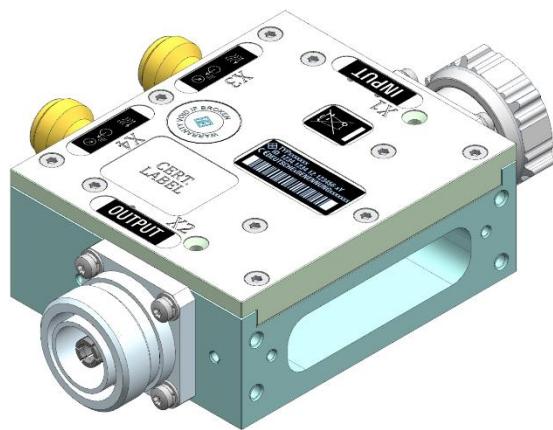
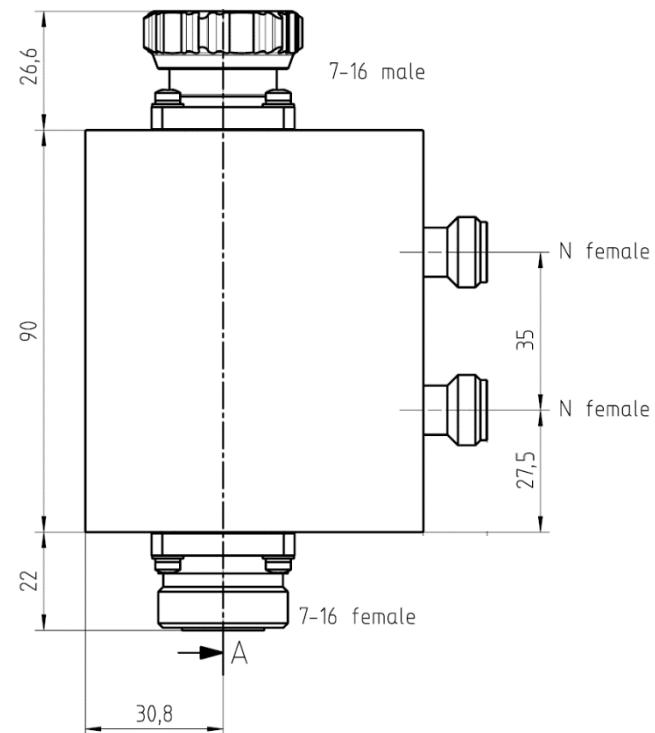




## R&S®DDC25-CDE53



## R&S®DDC25-CDE56



## General data

### Environmental specifications

Temperature loading	operating temperature range storage temperature range	0 °C to +40 °C –20 °C to +70 °C
Damp heat		max. +40 °C at 95 % relative humidity, without condensation
Altitude	operating altitude storage altitude	up to 2000 m up to 4600 m
Mechanical resistance test values of desktop models	vibration, sinusoidal	in line with EN 60068-2-6: 5 Hz to 55 Hz, displacement: 0.15 mm, > 55 Hz to 150 Hz, acceleration: 0.5 g
	vibration, random	in line with EN 60068-2-64: effective acceleration ≤ 1.2 g, 10 Hz to 300 Hz, acceleration density: 0.003 g <sup>2</sup> /Hz
	shock	in line with EN 60068-2-27: 18 saw tooth shocks, each 40 g in 11 ms MIL-STD-810E method no. 516.4, procedure I
Calibration interval		every 2 years

### Calibration

Manufacturer calibration, ISO 17025	included
Accredited calibration, ISO 17025 (DKD)	optional
Calibration interval	every 2 years



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R&S®DDC25 Dual Directional Coupler

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