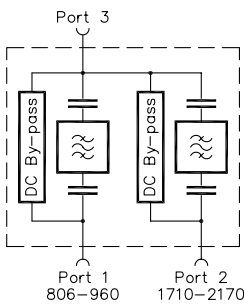


Dual-Band Combiner

806 – 960 MHz
CDMA 800 / GSM 900

1710 – 2170 MHz
GSM 1800 / UMTS

- Designed for co-siting purposes
- Enables feeder sharing
- Can be used as a combiner near the BTS or in a reciprocal function near the antenna
- Suitable for indoor or outdoor applications
- Wall or mast mounting
- Available as a single unit, or for XPol antennas as a double unit
- DC by-pass between all ports
- DC stop available as an accessory



Single Unit 793 532
Double Unit 793 533
(only 1 unit shown)

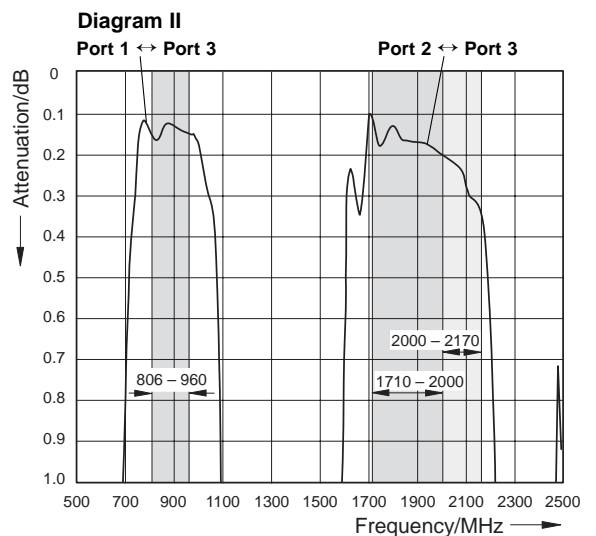
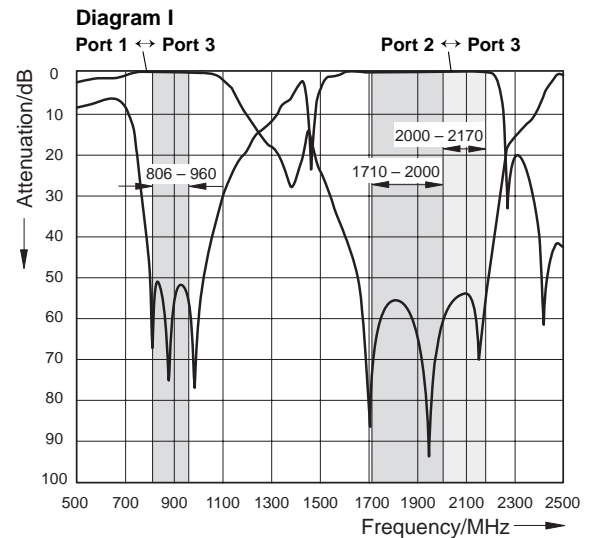


793 532
Single Unit



793 533
Double Unit

Typical Attenuation Curves



Technical Data

Type No.	793 532 Single Unit	793 533 Double Unit
Pass band	806 – 960 MHz 1710 – 2170 MHz	
Band 1	806 – 960 MHz	
Band 2	1710 – 2170 MHz	
Insertion loss	Typically 0.15 dB (806 – 960 MHz) Typically 0.25 dB (1710 – 2000 MHz) Typically 0.35 dB (2000 – 2170 MHz)	
Port 1 ↔ Port 3		
Port 2 ↔ Port 3		
Isolation	> 45 dB (806 – 824 MHz) > 50 dB (824 – 960 MHz) > 50 dB (1710 – 2170 MHz)	
Port 1 ↔ Port 2		
VSWR	< 1.2 (806 – 960 / 1710 – 2170 MHz)	
Impedance	50 Ω	
Input power	< 250 W < 200 W	
Band 1		
Band 2		
Intermodulation products	< -160 dBc (2nd/3rd order; with 2 x 20 W)	
Temperature range	-55 ... +60 °C	
Connectors	7-16 female	
Application	Indoor or outdoor (IP 66)	
Special features	DC by-pass between all ports (max. 2500 mA)	
Mounting	Wall mounting: With 4 screws (max. 8 mm diameter) Mast mounting: With additional clamp set	
Weight	1.6 kg	3.0 kg
Packing size	350 x 165 x 138 mm	350 x 165 x 190 mm
Dimensions (w x h x d)	125 x 282 x 61.2 mm	125 x 282 x 111.6 mm (including mounting brackets)

936.21/37/c Subject to alteration.

Dual-Band Combiner

KATHREIN

Antennen · Electronic

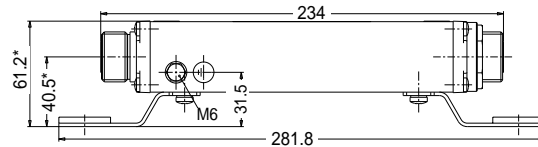
806 – 960 MHz
CDMA 800 / GSM 900

1710 – 2170 MHz
GSM 1800 / UMTS

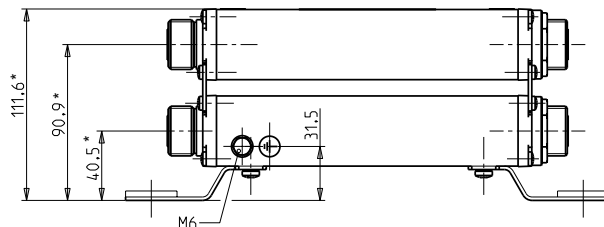
Accessories (order separately)

Type No.	Clamp set suitable for mast diameter of
734 360	34 – 60 mm
734 361	60 – 80 mm
734 362	80 – 100 mm
734 363	100 – 120 mm
734 364	120 – 140 mm
734 365	45 – 125 mm

Type No.	Description
793 301	DC Stop

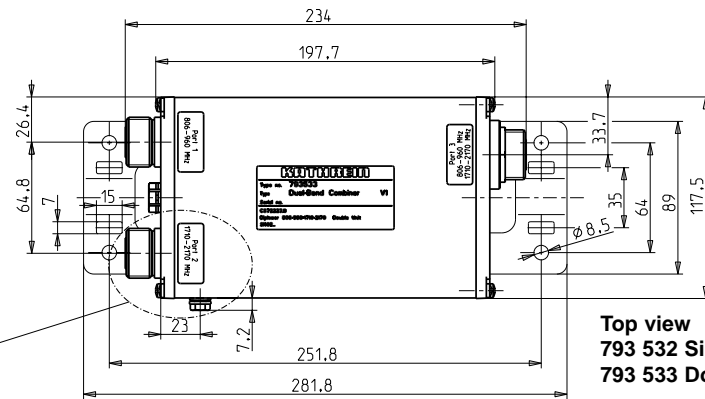
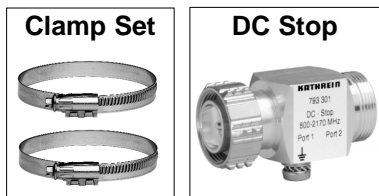


Side view
793 532 Single Unit

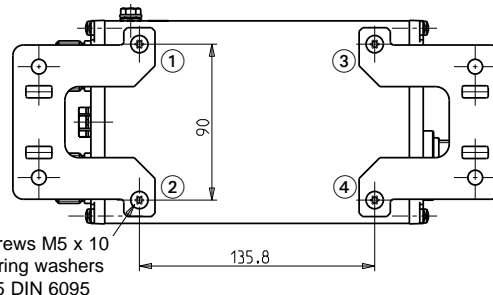
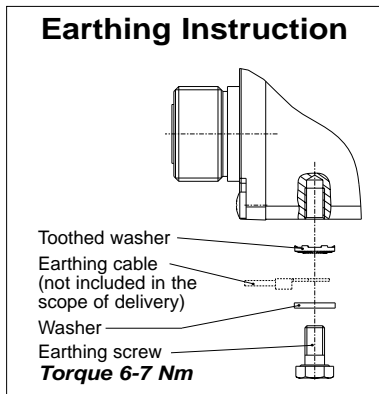


Side view
793 533 Double Unit

* Valid if labelled "Dual-Band Combiner V1" (not valid for previous version labelled "Dual-Band Combiner")



Top view
793 532 Single Unit,
793 533 Double Unit



Bottom view
793 532 Single Unit,
793 533 Double Unit

Please note:

The mounting plates of products labelled "Dual-Band Combiner V1" can be removed by loosening the screws ① to ④ (M5 x 10) and replaced with other means of mounting, always provided that the max. drilled depth of 8.5 mm is respected with the choice of replacement screws.
If the label does not contain the suffix "V1" then IP66 protection will be lost and all corresponding guarantees will become null and void, if mounting brackets are removed or tampered with.

As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions.

Extraordinary operating conditions, such as heavy icing or exceptional dynamic stress (e.g. strain caused by oscillating support structures), may result in the breakage of a mast mounted device or even cause it to fall to the ground.

These facts must be considered during the site planning process.

The Dual-band Combiners are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E and have passed environmental tests as recommended in ETS 300 019-2-4.

The installation team must be properly qualified and also be familiar with the relevant national safety regulations.

The details given in our data sheets have to be followed carefully when installing the antennas, filters, combiners, amplifiers and accessories.

The limits for the coupling torque of RF connectors, recommended by the connector manufacturers must be obeyed.

Any previous datasheet issues have now become invalid.

