

Duplexer

824 – 851 / 869 – 896 MHz (AMPS A/B-Band)

824 – 846.5 / 869 – 891.5 MHz (AMPS A/B-Band)

KATHREIN

Antennen · Electronic

The Duplexer is designed to combine/split AMPS Tx and Rx signals onto/from one common Tx/Rx antenna in order to save feeder cable and antenna costs.

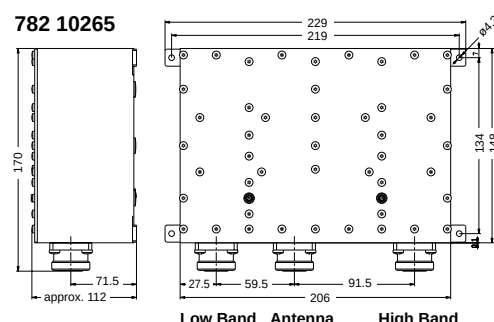
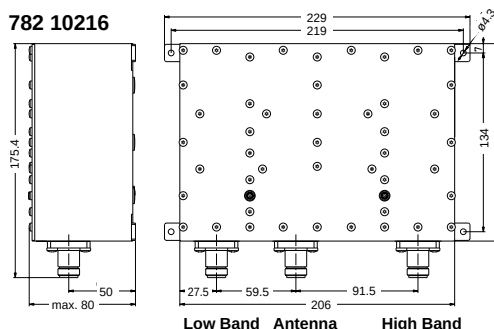
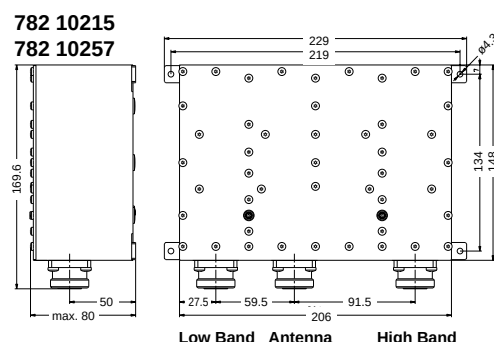
- Suitable for indoor application
- Built-in DC stop



782 10215, 782 10257



782 10216



Technical Data

Type No.	782 10215 AMPS A/B-Band	782 10216 AMPS A/B-Band	782 10257 AMPS A/B-Band (reduced bandwidth)	782 10265 AMPS A/B-Band (reduced bandwidth)
Pass band				
Low band	824 – 851 MHz		824 – 846.5 MHz	
High band	869 – 896 MHz		869 – 891.5 MHz	
Insertion loss				
Antenna → Low band	< 0.5 dB (824 – 851 MHz)		< 0.5 dB (824 – 846.5 MHz)	
High band → Antenna	< 0.5 dB (869 – 896 MHz)		< 0.5 dB (869 – 891.5 MHz)	
Isolation				
Low band ↔ High band	> 65 dB (824 – 851 / 869 – 896 MHz)		> 70 dB (824 – 846.5 / 869 – 891.5 MHz)	
VSWR	< 1.25 (824 – 851 / 869 – 896 MHz)		< 1.25 (824 – 846.5 / 869 – 891.5 MHz)	
Impedance	50 Ω		50 Ω	
Input power	< 400 W (high band; with max. 16 carriers)		< 400 W (high band; with max. 16 carriers)	< 800 W (high band; with max. 32 carriers)
Intermodulation products	< –160 dBc (3rd order; with 2 x 20 W)		< –160 dBc (3rd order; with 2 x 20 W)	
Temperature range	–20 ... +55 °C		–20 ... +55 °C	
Connectors	7-16 female	N female	7-16 female	
Application	Indoor		Indoor	
Special features	Built-in DC stop between all ports		Built-in DC stop between all ports	
Mounting	With 4 screws (max. 4 mm diameter)		With 4 screws (max. 4 mm diameter)	
Weight	2.6 kg		2.6 kg	Approx. 3 kg
Packing size	309 x 252 x 162 mm		309 x 252 x 162 mm	309 x 252 x 162 mm
Dimensions (w x h x d)	229 x 80 x 170 mm	229 x 80 x 175.4 mm	229 x 80 x 170 mm	229 x 112 x 170 mm
	(including connectors and mounting feet)		(including connectors and mounting feet)	

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Typical Attenuation Curves (782 10215, 782 10216)

Diagram I

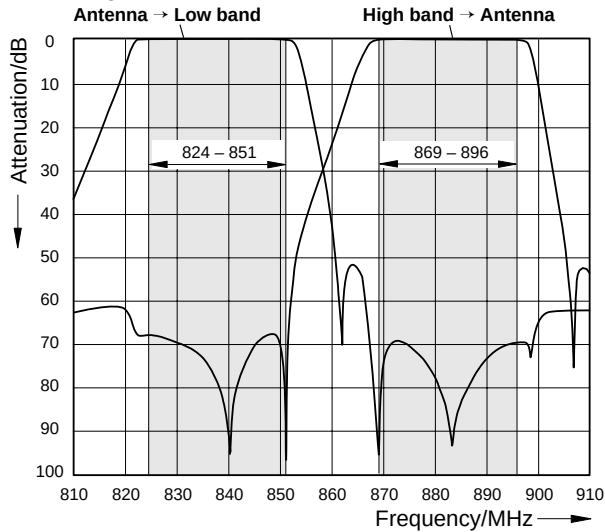
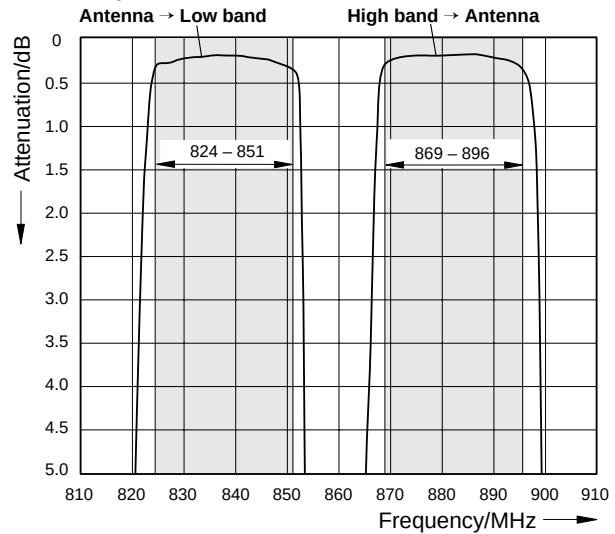


Diagram II



Typical Attenuation Curves (782 10257)

Diagram I

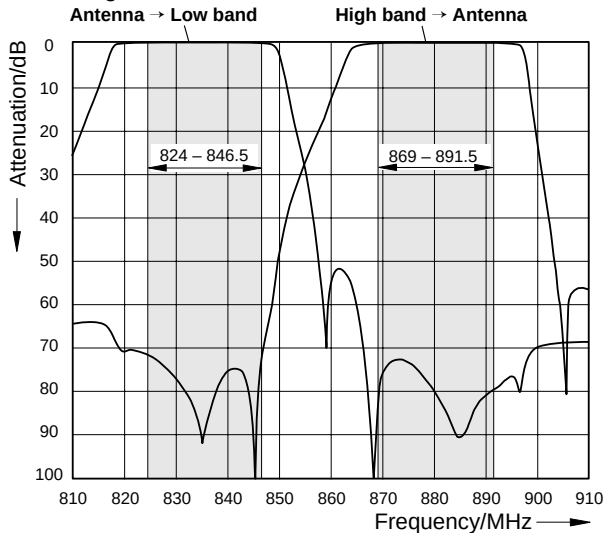
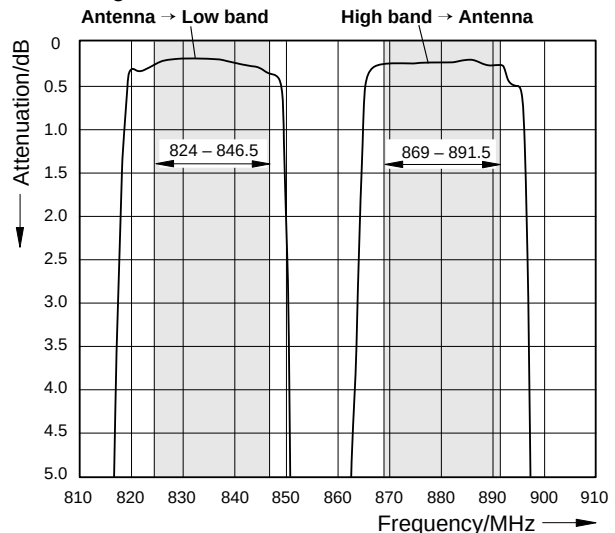


Diagram II



Typical Attenuation Curves (782 10265)

Diagram I

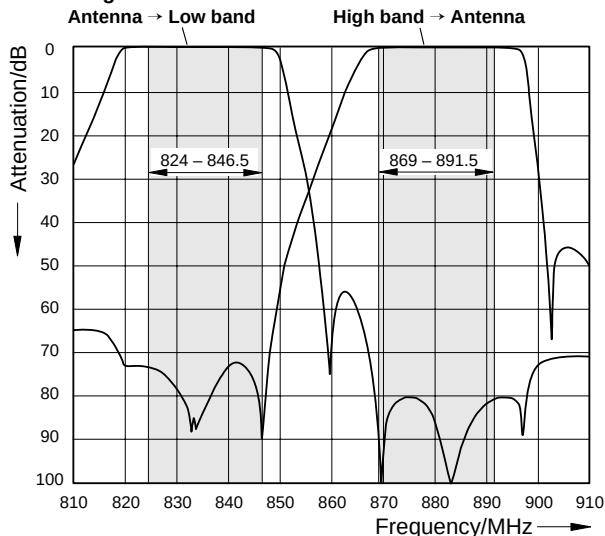


Diagram II

