

# BDC 0.1 ... 6 GHz

## Directional Coupler (ISO 11452-9)

### STANDARD MODELS

Model Line Connector(s)	Part Number	Frequency Range	Coupling dB	Power Pmin W	Insertion Loss max dB	Directivity min dB	VSWR max Main Line	Main Coupling Connectors
BDC 0160-30/500	0.1 ... 6 GHz				0	2 HU, 430 mm	0	N-f
	144 ... 146 MHz	45 ±3	0 / 0 ±0	0 / 0				
	400 ... 450 MHz	36 ±3	0 / 0 ±0	0 / 0				
	0.7 ... 6 GHz	30 ±2	0 / 0 ±0	0 / 0				
BDC 0160-40/500	0.1 ... 6 GHz				0	2 HU, 430 mm	0	N-f
	144 ... 146 MHz	55 ±3	0 / 0 ±0	0 / 0				
	400 ... 450 MHz	46 ±3	0 / 0 ±0	0 / 0				
	0.7 ... 6 GHz	40 ±2	0 / 0 ±0	0 / 0				
BDC 0160-50/500	0.1 ... 6 GHz				0	2 HU, 430 mm	0	N-f
	144 ... 146 MHz	65 ±3	0 / 0 ±0	0 / 0				
	400 ... 450 MHz	56 ±3	0 / 0 ±0	0 / 0				
	0.7 ... 6 GHz	50 ±2	0 / 0 ±0	0 / 0				

For individual data sheets, please click on the above model name

S: Single directional coupler

[Special Dual Directional Coupler according to Automotive ISO 11452-9](#)

[Road vehicles - Component test methods for electrical disturbances - Part 9: Portable transmitters](#)

[142 MHz ... 6 GHz at standardized sub-bands](#)

-> Attention: Below 700 MHz there is no continuously usable frequency range with defined coupling attenuation!

Notice:

Under normal operating conditions all Directional Couplers do not need to be mounted to a heatsink. However, if the units permanently run into high mismatch conditions at full rated power, the circuits will heat up significantly. In this case, we would recommend the units be mounted to a suitable heatsink or metal surface, capable to maintain a baseplate temperature of +60°C max.