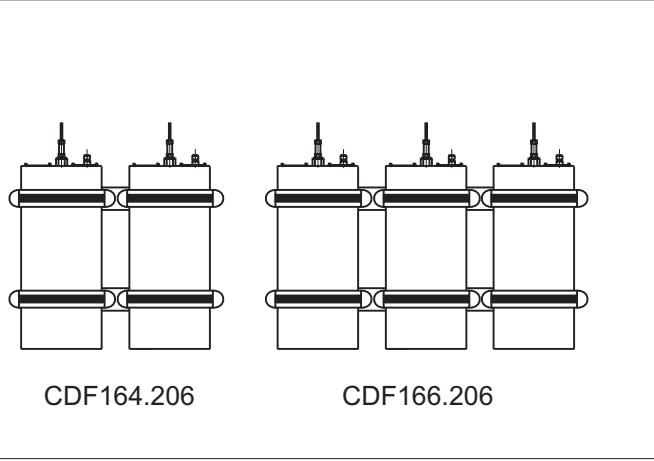
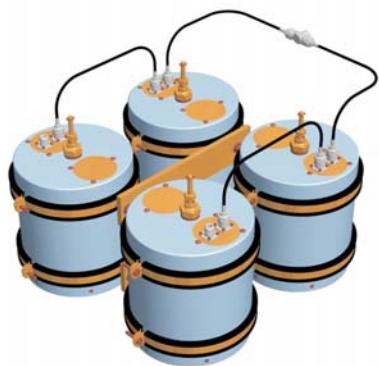




# Cavity Duplexers

## CDF16x.206



The CDF16x.206 is a symmetrical duplexer made of four or six full-length  $1/4 \lambda$  resonators in a Band-reject configuration. The duplexer is designed for the operation of the transmitter and receiver together in to one antenna in bands of 144-180 MHz.

The duplexer consists of four or six filters SPC161.206 and interconnecting cables of defined length, depending on the operating frequency. It can be used for very small frequency spacing, to obtain very high stop band attenuation at very low insertion loss. The stop band attenuation is dependent on the frequency spacing and the number of filters.

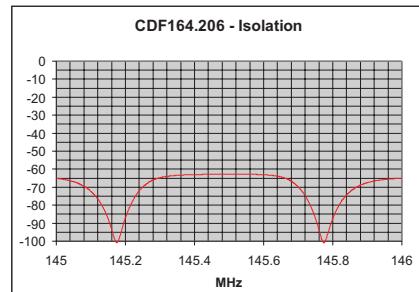
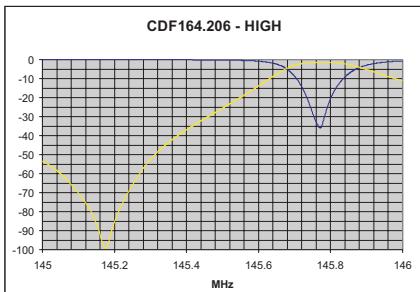
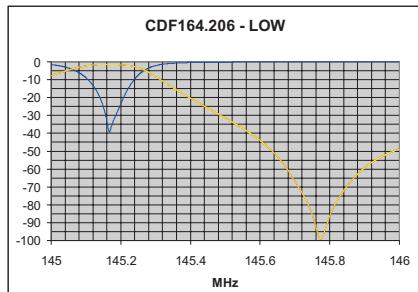
The duplexer is tuned to desired pass band frequencies at the factory. For special application more than six filters can be combined.

### ELECTRICAL PARAMETERS

Frequency range [MHz]	144-174	
Number of resonators	CDF164.206 - 4	CDF166.206 - 6
Min.frequency spacing [MHz]	0.6	0.3
Typ. Insertion loss [dB]	1 - 4	1.5 - 6
VSWR	<1.4	
Impedance [Ohm]	50	
Max. Input power [W]	<200	
Temperatur range [°C]	-30.....+60	
Effect of temperature [kHz/°C]	<1.5	

### MECHANICAL PARAMETERS

Connection	N female	
Material	Outer conductor: Aluminium	
	Inner conductor: Brass, silver-plated	
Weight [kg]	36	54



Example: CDF164.206    LOW freq. 145.175 MHz, HIGH freq. 145.775 MHz