

# Duplexer

## UHF Mobile Notch Duplexer, Rugged.

### 380-420MHz

### DPxxxx-516x-NR



Where space is restricted and temperatures can vary considerably, RFI's range of rugged six resonator mobile notch duplexers are ideal for use as a single duplex channel duplexer. The good Lo to Hi port-to-port isolation reduces the risk of carrier desensitisation in the nominated Rx port. A range of different Tx to Rx splits in the common UHF sub-bands are available.

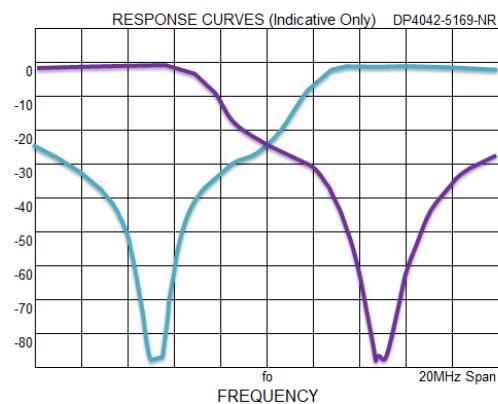
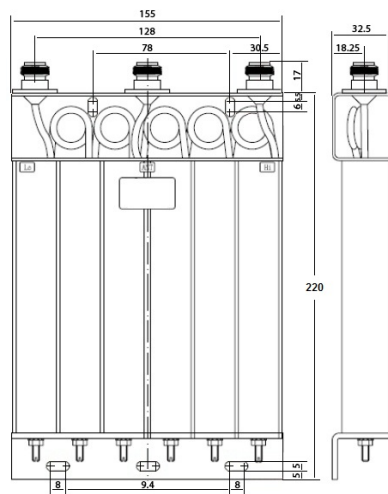
#### Features:

- RUGGED, compact temperature stable design
- 5 to 9.5MHz Tx to Rx split options
- Low insertion loss
- Typically  $\geq 75$ dB port to port isolation
- 50W (CW) power rating
- Flat surface mounting holes provided
- Tx / Rx reversible on Lo / Hi ports



#### Specifications

Model Number	DP3537-5165-NR	DP3537-5169-NR	DP4042-5166-NR	DP4042-5169-NR
Type	Notch Duplexer			
Band	350-370MHz	350-370MHz	400-420MHz	400-420MHz
Tuneable frequency range - Low Pass Port	350-365MHz	350-360.5MHz	400-414MHz	400-410.5MHz
Tuneable frequency range - High Pass Port	355-370MHz	359.5-370MHz	406-420MHz	409.5-420MHz
Tx to Rx Separation - typical	5MHz	9.5MHz	6MHz	9.5MHz
Low & High Pass Port Insertion Loss - typical	$\leq 1.8$ dB	$\leq 1.5$ dB		
Port to Port Isolation - typical	$\geq 75$ dB			
Input Power (CW) - max	50W			
Impedance	50 Ohms			
Return Loss / VSWR	$> 14$ dB / 1.5:1			
Termination Connectors	N Female			
Mounting Option	Flat Surface Mounting			
Finish	Painted Black			
Duplexer only dimensions (mm/inches excl conn)	L 220(8.66") x W 155 (6.1") x H 32.5 (1.28")			
Weight - approx.	1.10Kg / 2.42lbs			
Temperature Range	$-30^{\circ}$ to $+60^{\circ}$ C / $-22^{\circ}$ to $+140^{\circ}$ F			



Ordering information	Description
DP3537-5165-NR	Duplexer Mobile Notch 350-370MHz, T/R 5MHz, 50W, N(F)
DP3537-5169-NR	Duplexer Mobile Notch 350-370MHz, T/R 9.5MHz, 50W, N(F)
DP4042-5166-NR	Duplexer Mobile Notch 400-420MHz, T/R 6MHz, 50W, N(F)
DP4042-5169-NR	Duplexer Mobile Notch 400-420MHz, T/R 9.5MHz, 50W, N(F)