

Duplexer

VHF Mobile Notch Duplexer, Rugged.

140-174MHz

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 VHF sub-bands are available.

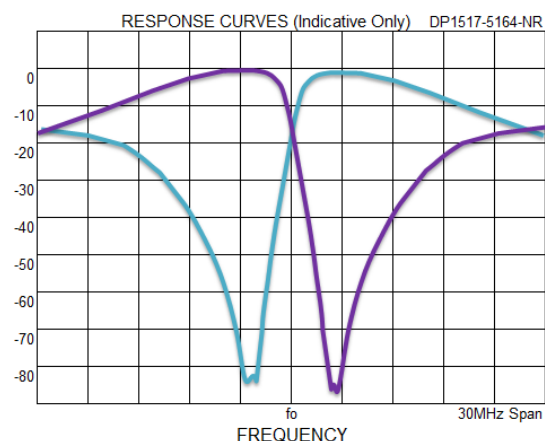
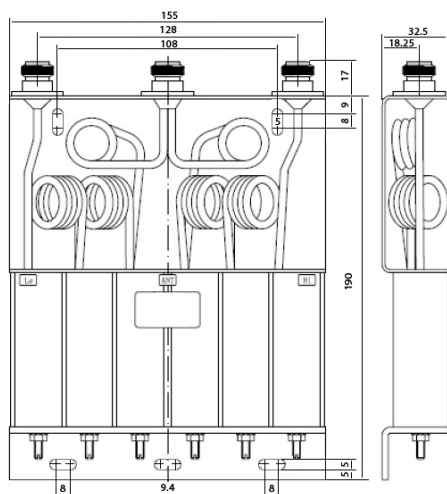
Features:

- RUGGED, compact temperature stable design
- 4.6 to 7MHz Tx to Rx split options
- Low insertion loss
- Typically $\geq 75\text{dB}$ port to port isolation
- 50W (CW) power rating
- Flat surface mounting holes provided
- Tx / Rx reversible on Lo / Hi ports



Specifications

Model Number	DP1415-5167-NR	DP1416-5164-NR	DP1517-5164-NR	DP1517-5166-NR
Type	Notch Duplexer			
Band	140-150MHz	140-160MHz	150-174MHz	150-174MHz
Tuneable frequency range - Low Pass Port	140-143MHz	140-155.4MHz	150-154.6MHz	150-167.2MHz
Tuneable frequency range - High Pass Port	147-150MHz	144.6-160MHz	169.4-174MHz	156.8-174MHz
Tx to Rx Separation - typical	7MHz	4.6MHz	4.6MHz	6.8MHz
Low & High Pass Port Insertion Loss - typical	$\leq 1.5\text{dB}$			
Port to Port Isolation - typical	$\geq 75\text{dB}$			
Input Power (CW) - max	50W			
Impedance	50 Ohms			
Return Loss / VSWR	$> 14\text{dB}$ / 1.5:1			
Termination Connectors	N Female			
Mounting Option	Flat Surface Mounting			
Finish	Painted Black			
Duplexer only dimensions (mm/inches excl conn)	L 190(7.48") x W 155 (6.1") x H 32.5 (1.28")			
Weight - approx.	0.86Kg / 1.89lbs			
Temperature Range	-30° to $+60^{\circ}\text{C}$ / -22° to $+140^{\circ}\text{F}$			



Ordering information	Description
DP1415-5167-NR	Duplexer Mobile Notch 140-150MHz, T/R 7MHz, 50W, N(F)
DP1416-5164-NR	Duplexer Mobile Notch 140-160MHz, T/R 4.6MHz, 50W, N(F)
DP1517-5164-NR	Duplexer Mobile Notch 150-174MHz, T/R 4.6MHz, 50W, N(F)
DP1517-5166-NR	Duplexer Mobile Notch 150-174MHz, T/R 6.8MHz, 50W, N(F)