

Duplexer
Band Pass
400-420 MHz
DP4042-0804-32



RFI's range of compact multi-resonator milled aluminium band pass duplexers are ideal for use where space is restricted or at a premium. The relatively broad pass band characteristic, good duplex port to port isolation, high power and multi-carrier capability make these ideal duplexers for either single carrier or combined multicarrier systems. The temperature stable resonators provide a wide operational temperature range ensuring important electrical specifications such as insertion loss and Tx port to Rx port isolation are maintained.

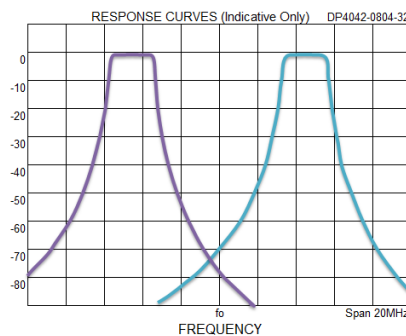
Features:

- Compact temperature stable design
- $\leq 2\text{MHz}$ Pass band Low & High ports
- 100W (CW) Power rating
- Low insertion loss ripple
- 2RU 19" Rack mount front panel
- 5-10MHz Tx to Rx Duplex split



Specifications

Model Number	DP4042-0804-32
Type	Band Pass
Tunable frequency range - Low Pass Port	400-415MHz
Tunable frequency range - High Pass Port	405-420MHz
Pass Band - High and Low Ports	$\leq 2\text{MHz}$
Tx to Rx Separation - typical	5-10MHz
Low & High Pass Port Insertion Loss - typical.	$\leq 1.75\text{dB}$
Low & High Pass Port - ripple	$\leq 0.6\text{dB}$
Port to Port Isolation - typical	$\geq 75\text{dB}$
Input Power (CW) - max	100W
Impedance	50Ω
Return Loss / VSWR	$\geq 19\text{dB}$ / $\leq 1.25:1$
Termination Connectors	N (F)
Mounting Option	2RU 19" Rack mount front panel
Finish	Painted Black
Duplexer only dimensions (mm/inches excl connectors)	H 87 (3.4") x W 277 (10.9") x D 97 (3.8")
Duplexer with panel dimensions (mm/inches excl connectors)	H 89 (3.5") x W 483 (19") x D 97 (3.8")
Weight - approx	3.2kg / 7.04lbs
Temperature Range	-30 to $+60^\circ\text{C}$ / -22 to $+140^\circ\text{F}$



Model Number	Description
DP4042-0804-32	Duplexer B.P 400-420MHz, 2MHz PB, 5-10MHz T/R, 100W, 2RU