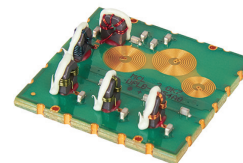


Surface Mount

# Diplexer

## DPLB-4254A0+

75Ω DC to 1220 MHz  
(DC-42, 54-1220 MHz)



CASE STYLE: NU1620

### The Big Deal

- Low insertion loss, 0.8dB Typ.
- High rejection, 45dB Typ.
- Very good return loss, 18dB Typ.
- 75Ω Impedance
- Used in DOCSIS 3.1 standard

### Product Overview

DPLB-4254A0+ is a Low cost diplexer with the lowpass port at DC-42 MHz and highpass port at 54-1220 MHz. Good return loss combined with high out of channel rejection makes it a ideal component in cable TV and multiband radio systems.

### Key Features

Feature	Advantages
Low passband insertion loss	Passband insertion loss 0.8dB ensures low signal loss through both the channels.
Good Stopband rejection	Co-channel rejection of 45dB ensures unwanted spurious are eliminated.
Good return loss at DC-42 and 54-1220 MHz	This makes signal transmission with very less reflection and well-matched with the adjacent component used in the system.

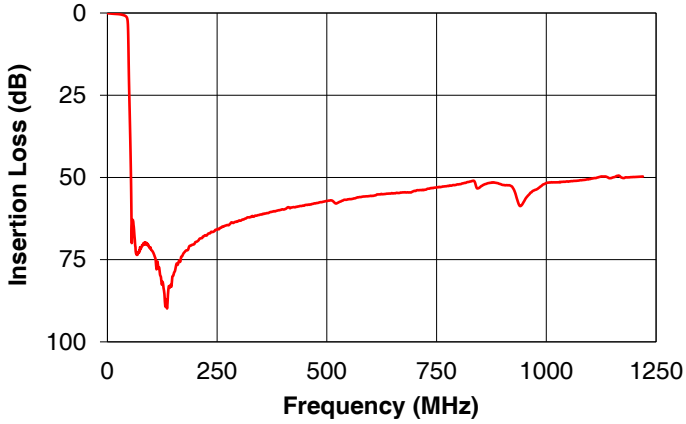
#### Notes

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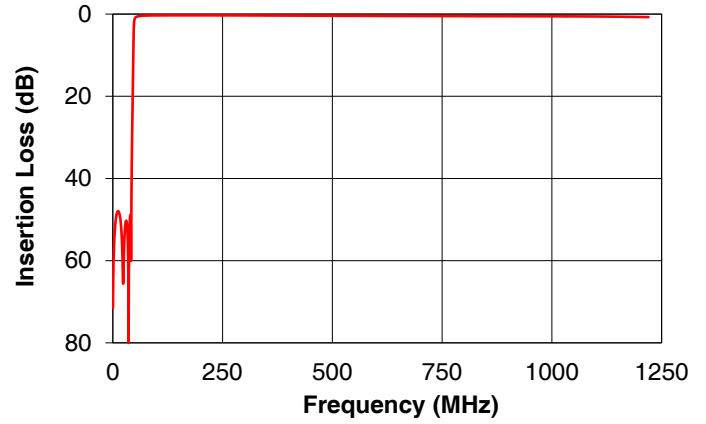




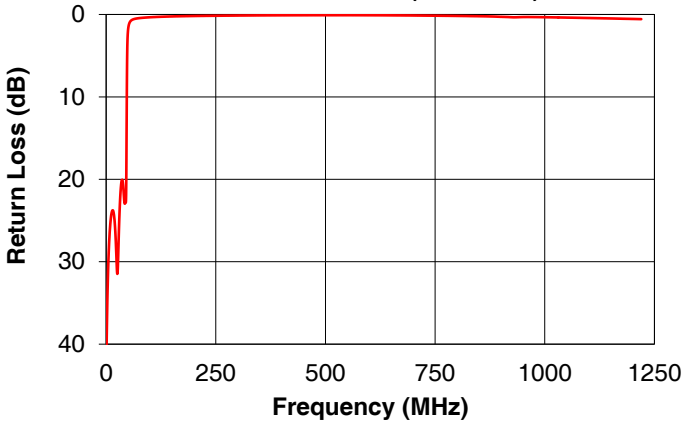
DPLB-4254A0+ LOW PASS PORT  
INSERTION LOSS ( $P_{in}=0dBm$ )



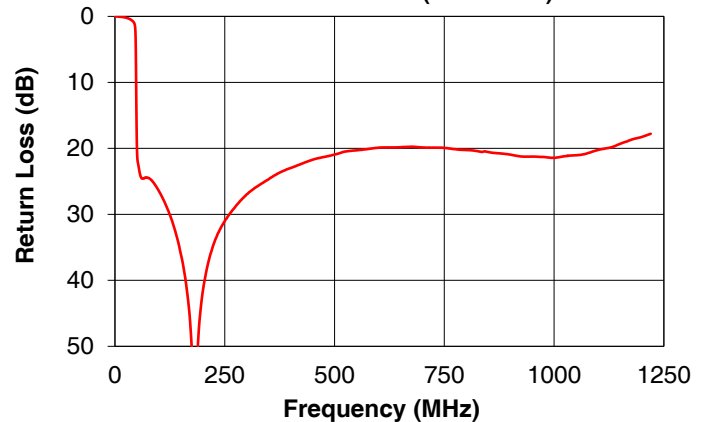
DPLB-4254A0+ HIGH PASS PORT  
INSERTION LOSS ( $P_{in}=0dBm$ )



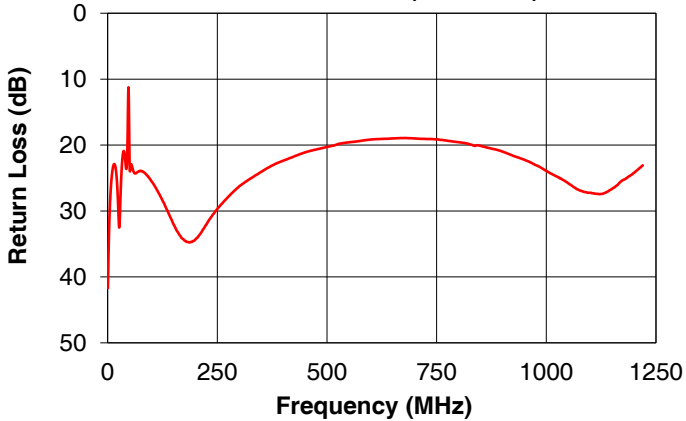
DPLB-4254A0+ LOW PASS PORT  
RETURN LOSS ( $P_{in}=0dBm$ )



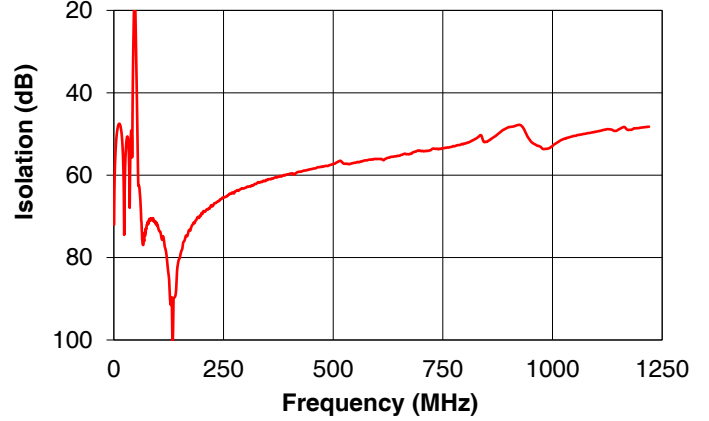
DPLB-4254A0+ HIGH PASS PORT  
RETURN LOSS ( $P_{in}=0dBm$ )



DPLB-4254A0+ COMMON PORT  
RETURN LOSS ( $P_{in}=0dBm$ )



DPLB-4254A0+ CROSS OVER  
ISOLATION ( $P_{in}=0dBm$ )



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