



**400-490 MHz**  
**Economic pass/reject duplexers**  
**DPRE4-4UL, DPRE4-4UM,**  
**DPRE4-4UH**  
**DPRE4-6UL, DPRE4-6UM,**  
**DPRE4-6UH**

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DPRE4-4U



DPRE4-6U



Electrical specifications

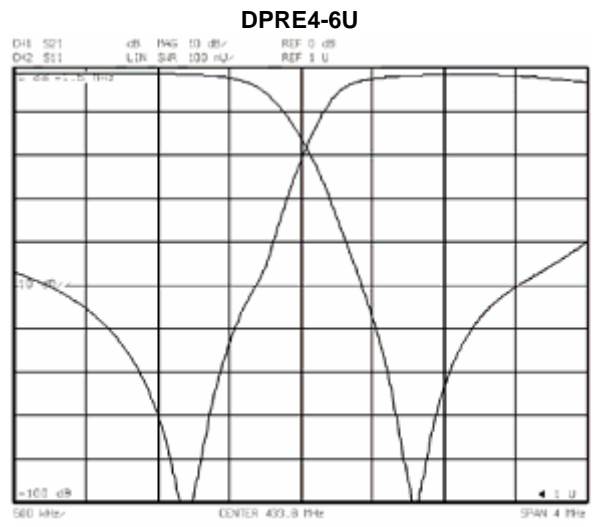
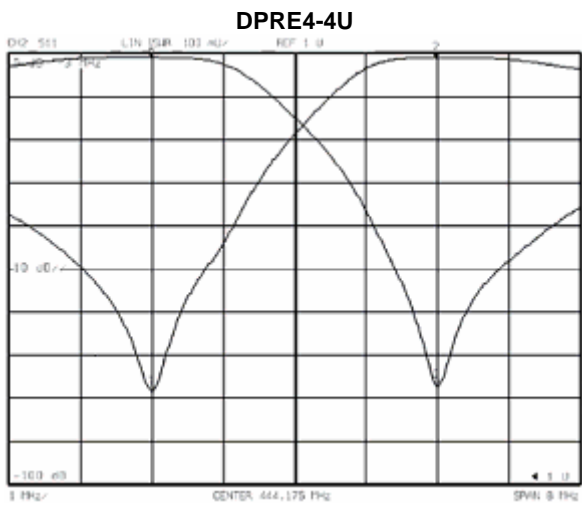
Model	DPRE4-4UL	DPRE4-4UM	DPRE4-4UH	DPRE4-6UL	DPRE4-6UM	DPRE4-6UH
Operating frequency band, MHz	400-440	430-470	470-490	400-440	430-470	470-490
Insertion loss (adjustable) not more, dB	1.5	1.5	1.5	2	2	2
Frequency separation TX/RX (min), MHz	2	2	2	1.6	1.6	1.6
Impedance, Ohm	50	50	50	50	50	50
Isolation, not less, dB	75	75	75	90	90	90
VSWR, not more than	1.5	1.5	1.5	1.5	1.5	1.5
Input power, not more, W	300	300	300	300	300	300
Temperature range, °C				from -30 to +60		
Cavity electrical length	1/4λ	1/4λ	1/4λ	1/4λ	1/4λ	

Mechanical specifications

Model	DPRE4-4UL	DPRE4-4UM	DPRE4-4UH	DPRE4-6UL	DPRE4-6UM	DPRE4-6UH
Diameter, mm (ins.)	116 (4")	116 (4")	116 (4")	116 (4")	116 (4")	116 (4")
Weight, kg	5.8	5.8	5.8	8.1	8.1	8.1
Connector				N-female		
Mount to 19-inch rack				present		
Length/Width/Depth, mm				800x480x265		

These new economic models distinguish from the traditional band reject duplexers as the coaxial tripling elements are changed by the whole-soldered nodes. The filter has a construction that ensures a high thermo-stability due to Invar alloy. A high quality-factor of each cavity is provided by means of application of the pure electro-technical copper and by the silvering of the contacting parts. An adjusting is being implemented on the modern network spectrum analyzers manufactured by Agilent Technologies and Rohde&Schwartz.

### Typical duplexers response curves



2011