



PRD1 Series

4-Cavity Pass-Reject

Duplexer

430-450 MHz

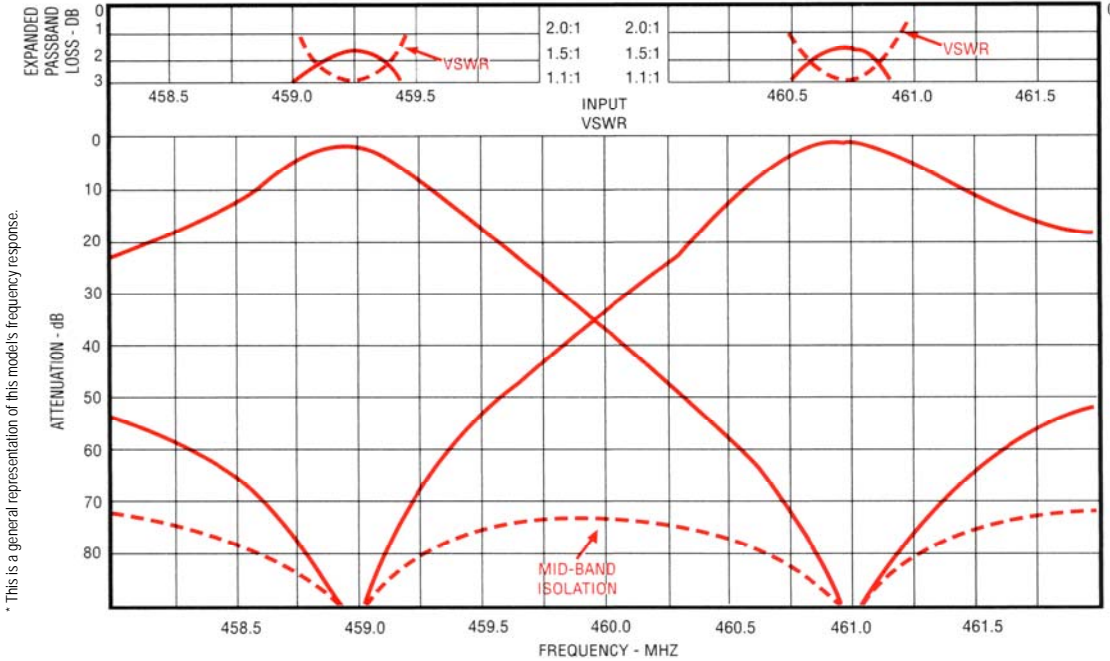
VHF UHF



**Electromagnetics**

"Quality is everything."

**JAG-PRD-440-07-4-RM**



JAG-PRD-440-07-4-RM Shown for illustration

\* This is a general representation of this model's frequency response.

The JAG-PRD-440-07-4-RM four-cavity band-pass/band-reject duplexer is comprised of 7-inch aluminum cavities with internal silver-plated tuners to maintain a very high Q and low loss. As a consequence, the JAG-PRD-440-07-4-RM provides isolation in excess of 80dB at frequency separations of 2 MHz or greater.

The JAG-PRD-440-07-4-RM has been designed with temperature compensation in mind to avoid detuning and as a result, frequency drift over the operating temperature range is extremely small ( $\approx 0.5$  ppm / degC).

Electrical Specifications		Mechanical Specifications		Environmental	
Model	JAG-PRD-440-07-4-RM	Model	JAG-PRD-440-07-4-RM	Model	JAG-PRD-440-07-4-RM
Frequency Range (MHz)	430 - 450	Height	inches (mm) 18 (457)	Temperature Range	-40-degC to +60-degC
Bandwidth @ 1.5:1 VSWR or Better (MHz)	20	Width	inches (mm) 19 (483)		
		Depth	inches (mm) 15 (381)		
Maximum Input VSWR	1.5:1	Weight	lb (kg) 45 (20.4)		
Maximum Input Power (Watts)	200	Mounting System	19-inch rack mount		
Min Frequency Separation (MHz)	2.0				
Insertion Loss (dB)	2.2 - 2.5	Termination	'N' Female		
Isolation (dB)					
	Tx noise suppression at Rx 80 min.				
	Rx suppression at Tx 80 min.				
	Port to Port 80 min.				
Nominal Impedance ( $\Omega$ )	50				

JAG-PRD-440-07-4-RM Product Specification Sheet.

Specifications are subject to change without notice. As a result, all information contained in the present datasheet is subject to confirmation at time of ordering.

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