

# High Power and Standard Cellular Duplexers



RLC Electronics' Cellular Duplexers provide both high isolation and low insertion loss. The absence of magnetic materials, together with strict attention to structure result in low intermodulation. Both high power and standard duplexers are supplied

in a 2U rackmount package. Power ratings of these duplexers assume an operating altitude of 10,000 feet, a base plate temperature of +50°C and an antenna VSWR of 2:1.

## Specifications

DP-1-2-3

Model Number	Frequency Range (GHz)		Isolation (Min.) RCVR/XMIT	Loss (Max.)		Return Loss	Peak Power (max.)
	Receive	Transmit		Receive	Transmit		
DP-S-	824-849	869-894	75dB	.70dB	.80dB	14dB	400 W
DP-S-	872-905	917-950	60dB	1.00dB	1.00dB	14dB	400 W
DP-S-	890-915	935-960	75dB	.75dB	.85dB	14dB	400 W
DP-H-	824-849	869-894	75dB	1.00dB	1.00dB	14dB	10,000 W
DP-H-	890-915	935-960	75dB	1.00dB	1.00dB	14dB	10,000 W

**Monitor port** (Optional) coupling  
S- 40 ±5dB H- 50 ±5dB  
(Monitor coupling is not directional)

**Impedance:** 50 ohms

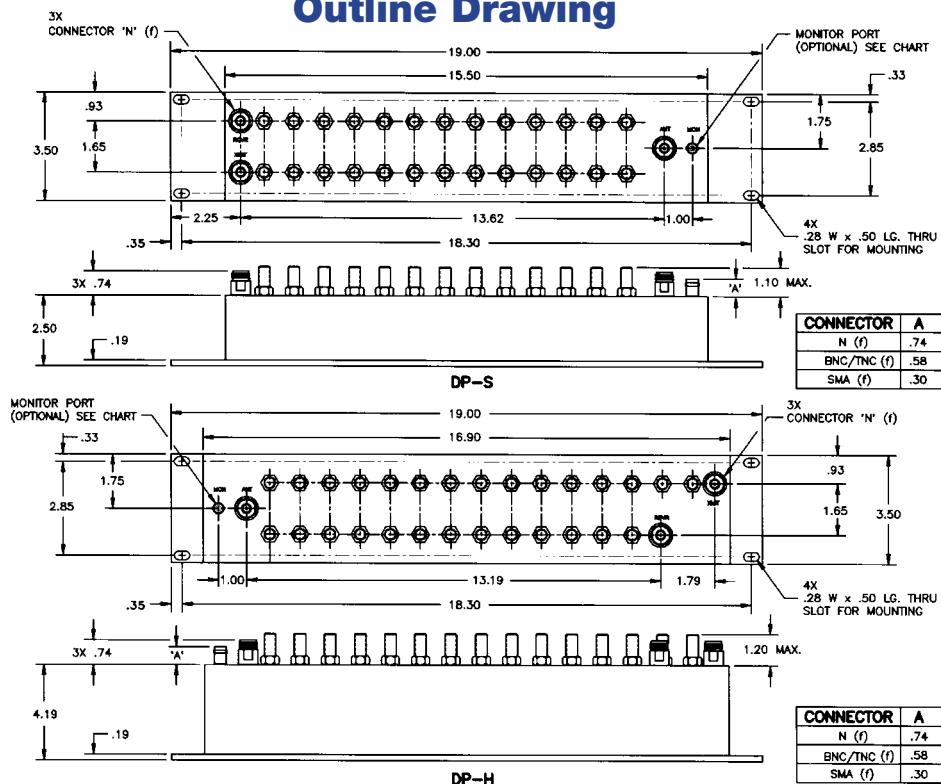
**Connectors:** Type 'N' (f) Monitor port (optional)  
'BNC' (f) 'SMA' (f) 'N' (f)

To designate the cellular duplexer desired use:

- (1) Duplexer Series S (Standard) H (High power)
- (2) Frequency Range: per above (Designate by 'Receive' range)
- (3) Monitor port MB ('BNC' (f)) MN ('N' (f)) MS ('SMA' (f))

Example: DP-H-824-849-MB is a high power, 824-849 MHz (receive) 869-894 MHz (transmit), duplexer with a 'BNC' (f) monitor port.

## Outline Drawing



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