

Section 3

RF HARDWARE

Updated 16 February 2011

PD-78716 Series Power Dividers 7/8" EIA Input 7/16" Female DIN Output

Frequency
Specify Centre

Bandwidth
10% or 25%



Constructed from brass and teflon, power dividers are designed to mount antennas in a 2, 3 or 4 stack phased array formation maintaining the optimum return loss. Ideal for broadcasters, these high power PD-78716 series dividers use a 7/8" EIA connector for input and 7/16" Female DIN connectors for output.

Each power divider is manufactured to the centre frequency you specify. There are both Single Stage and Two Stage power divider models to choose from depending upon the bandwidth you require :

- **Single Stage models provide a 10% bandwidth** around your specified centre frequency at better than -26 dB return loss.
- **Two Stage models achieve a 25% bandwidth** around your specified centre frequency at better than -26 dB return loss.

The length and weight of power dividers will vary according to frequency. Two stainless steel mounting clamps are provided for mounting to a mast up to 55 mm in diameter.

Branch feeder cable sets of a precise tuned length can be assembled to your requirements.

SPECIFICATIONS	PD-787162	PD-787163	PD-787164
Power Divider Description	Single Stage, 2-Way	Single Stage, 3-Way	Single Stage, 4-Way
Frequency	You specify centre	You specify centre	You specify centre
Maximum Bandwidth	10% around centre	10% around centre	10% around centre
SPECIFICATIONS	PD2-787162	PD2-787163	PD2-787164
Power Divider Description	Two Stage, 2-Way	Two Stage, 3-Way	Two Stage, 4-Way
Frequency	You specify centre	You specify centre	You specify centre
Maximum Bandwidth	25% around centre	25% around centre	25% around centre
Input Connector	7/8" EIA	7/8" EIA	7/8" EIA
Output Connectors	7/16" Female DIN x 2	7/16" Female DIN x 3	7/16" Female DIN x 4
Return Loss	Better than -26 dB	Better than -26 dB	Better than -26 dB
Max Input Power	4 Kilowatts	5 Kilowatts	5 Kilowatts
Impedance	50 Ohms	50 Ohms	50 Ohms
Construction	Brass and Teflon	Brass and Teflon	Brass and Teflon
Dimensions	Length and weight of power dividers varies according to frequency		
Warranty	2 Years	2 Years	2 Years
Mounting Clamps Supplied	2 x PDC-L clamps are supplied to suit a round mast between 30 mm and 55 mm in diameter		
Branch Feeder Cables	Can be assembled to the tuned length required. Order separately.		

