

Section 3

RF HARDWARE

Updated 16 February 2011

PD-7878 Series Power Dividers 7/8" EIA Input 7/8" EIA Output

Frequency
Specify Centre

Bandwidth
10% or 25%



Designed to mount broadcast antennas in a 2 or 4 stack phased array formation maintaining the optimum return loss, these PD-7878 series power dividers use 7/8" EIA connectors for both input and output and are capable of handling up to 5 kilowatts power.

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-78782	PD-78784
Power Divider Description	Single Stage, 2-Way	Single Stage, 4-Way
Frequency	You specify centre	You specify centre
Maximum Bandwidth	10% around centre	10% around centre
SPECIFICATIONS	PD2-78782	PD2-78784
Power Divider Description	Two Stage, 2-Way	Two Stage, 4-Way
Frequency	You specify centre	You specify centre
Maximum Bandwidth	25% around centre	25% around centre
Input Connector	7/8" EIA	7/8" EIA
Output Connectors	7/8" EIA x 2	7/8" EIA x 4
Return Loss	Better than -26 dB	Better than -26 dB
Max Input Power	5 Kilowatts	5 Kilowatts
Impedance	50 Ohms	50 Ohms
Construction	Brass and Teflon	Brass and Teflon
Dimensions	Length and weight vary according to frequency	
Warranty	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.	