

### Section 3

## RF HARDWARE

Updated 16 February 2011

### PD-NN Series Power Dividers N-Female Input N-Female 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 PD-NN series power dividers use N-female connectors for both input and output. The maximum input power rating is 500 watts.

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-NN2	PD-NN3	PD-NN4
<b>Power Divider Description</b>	Single Stage, 2-Way	Single Stage, 3-Way	Single Stage, 4-Way
<b>Frequency</b>	You specify centre	You specify centre	You specify centre
<b>Maximum Bandwidth</b>	10% around centre	10% around centre	10% around centre
SPECIFICATIONS	PD2-NN2	PD2-NN3	PD2-NN4
<b>Power Divider Description</b>	Two Stage, 2-Way	Two Stage, 3-Way	Two Stage, 4-Way
<b>Frequency</b>	You specify centre	You specify centre	You specify centre
<b>Maximum Bandwidth</b>	25% around centre	25% around centre	25% around centre
<b>Input Connector</b>	N-female	N-female	N-female
<b>Output Connectors</b>	N-female x 2	N-female x 3	N-female x 4
<b>Return Loss</b>	Better than -26 dB	Better than -26 dB	Better than -26 dB
<b>Max Input Power</b>	<b>500 Watts</b>	<b>500 Watts</b>	<b>500 Watts</b>
<b>Impedance</b>	50 Ohms	50 Ohms	50 Ohms
<b>Construction</b>	Brass and Teflon	Brass and Teflon	Brass and Teflon
<b>Dimensions</b>	Length and weight of power dividers varies according to frequency		
<b>Warranty</b>	<b>2 Years</b>	<b>2 Years</b>	<b>2 Years</b>
<b>Mounting Clamps Supplied</b>	2 x PDC-S clamps are supplied to suit a round mast between 30 mm and 55 mm in diameter		
<b>Branch Feeder Cables</b>	Can be assembled to the tuned length required. Order separately.		

