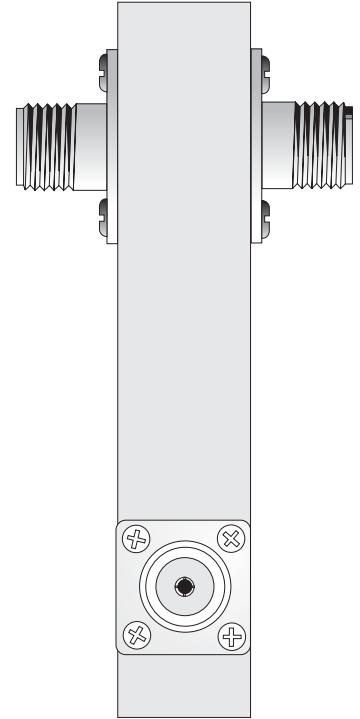




# DIRECTIVE SYSTEMS

177 DIXON RD.  
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## POWER DIVIDERS

- LOW VSWR under 1.1:1 at resonance
- ALL METAL COMPLETELY SEALED CONSTRUCTION
- TYPE N CONNECTOR STANDARD ALL MODELS
- 50 OHM IMPEDANCE & LOW LOSS
- DURABLE LIGHT BLUE FINISH

MODEL NUMBER	DESCRIPTION	POWER CAPACITY LIMITED BY N CONNECTORS!
2M-2PD	2 WAY 144-148 MHZ	1000 watts continuous
2M-4PD	4 WAY 144-148 MHZ	1000 watts continuous
220-2PD	2 WAY 222-225 MHZ	1000 watts continuous
220-4PD	4 WAY 222-225 MHZ	1000 watts continuous
70-2PD	2 WAY 420-450 MHZ	700 watts continuous
70-4PD	4 WAY 420-450 MHZ	700 watts continuous
33-2PD	2 WAY 800-1000 MHZ	500 watts continuous
33-4PD	4 WAY 800-1000 MHZ	500 watts continuous
23-2PD	2 WAY 1.2-1.4 GHZ	400 watts continuous
23-4PD	4 WAY 1.2-1.4 GHZ	400 watts continuous
18-2PD	2 WAY 1.6-1.8 GHZ	400 watts continuous
18-4PD	4 WAY 1.6-1.8 GHZ	400 watts continuous
13-2PD	2 WAY 2.3-2.5 GHZ	300 watts continuous
13-4PD	4 WAY 2.3-2.5 GHZ	300 watts continuous
9-2PD	2 WAY 3.3-3.5 GHZ	300 watts continuous
9-4PD	4 WAY 3.3-3.5 GHZ	300 watts continuous

Each power divider has been carefully constructed of high quality materials and will provide years of trouble free service if installed properly. Careful attention has been applied to seal the housing against water entry. There are inherent problems in preventing water entry through the coaxial connector, however. The UG-58/U female N connector employed is a high quality teflon dielectric type. But it should be noted that no UG-58/U connector is hermetically sealed. It is possible for water to enter through the connector and into the power divider. This effect can occur with wide excursions of temperature, where heating or cooling of the power divider body can expand (or contract) the air inside, setting up large pressure differentials. This change of pressure can force water vapor through the UG-58 connector. As temperatures within the divider cool, for example, after a rain storm, a substantial vacuum can develop that will literally draw moisture in through the N connectors! All cables should therefore be sealed very well with several layers of a good grade vinyl tape such as Scotch 33 and a coating of 3M SCOTCHKOTE, RTV, or soft butyl rubber compounds, to reduce the chance of water entry.

It is a good idea to install power dividers in an upright position as shown above. In excessively wet environments, it may be a good idea to drill a small weep hole (1/8" maximum dia.) in the bottom end of the divider to prevent water build up and enhance air circulation inside. No adverse effects on the power divider will occur.