



**MPD**

Power Dividers

LPD, MPD, PD, SPD Series

Power dividers are manufactured in a broad range of styles and types for varied applications. Generally a power divider consists of a junction block with a multi-stage quarter wave transforming section. Unequal power division may be achieved by adding quarter wave transforming sections between the junction block and the outputs.

Power dividers are available in 4 basic series:

LPD series - Low cost , low power equal split dividers using N type connectors.

MPD series - Low cost, low power equal split dividers (up to 4 way) using 7/8" EIA input connectors and N type output connector.

PD series:

Used for most common applications with up to 8 way division with ratios of up to 7dB in almost any combination. Wideband performance with multistage transforming sections, 7/8" EIA flanged input and EIA or DIN output connectors. Connectors are in-line to conserve space.

SPD series:

Similar to PD series but with up to 4 way split. EIA or IEC connectors, short circuit stub across the junction provides tuning and DC grounding. Additional low power arms are available where unequal power splits are required.

**FEATURES / BENEFITS**

- Low VSWR
- Wide bandwidth
- Fully welded outer construction
- Connectors are DIN, EIA or IEC standards
- Temperature range -40° to +60° C available
- EIA connectors have fixed male output spigots
- Available in 4 basic series
  - LPD
  - MPD
  - PD
  - SPD
- Unequal power dividers with a wide range of power division ratios available and engineered to customer requirements. Contact RFS for details.



SPD power dividers.

**Technical features**

**GENERAL SPECIFICATIONS**

|                     |  |                |
|---------------------|--|----------------|
| <b>Product Line</b> |  | Components     |
| <b>Product Type</b> |  | Power Dividers |

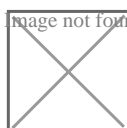
**ELECTRICAL SPECIFICATIONS**

|                                 |          |  |
|---------------------------------|----------|--|
| <b>Frequency Band</b>           |          | VHF Band I, VHF Band II, VHF Band III, UHF Band IV/V |
| <b>Input Return Loss</b>        | dB       | 30   |
| <b>Input Impedance</b>          | $\Omega$ | 50 unbalanced  |
| <b>Output Impedance</b>         | $\Omega$ | 50 unbalanced  |
| <b>Power Division Ratio</b>     | dB       | < 6  |
| <b>Power Division Variation</b> | dB       | within 0.5 of specified ratio                        |
| <b>Output Phase Variation</b>   | degrees  | < +/-10  |

**MECHANICAL SPECIFICATIONS**

|                          |  |        |
|--------------------------|--|--------|
| <b>Number of Outputs</b> |  | 2 to 6 |
|--------------------------|--|--------|

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PD and LPD power dividers.



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External Document Links

Notes