

# POWER DIVIDERS

## 0° : 3-WAY

Click on package to view outline drawing

### LEADED SURFACE-MOUNT

134J

159

| FREQUENCY RANGE<br>(MHz) | ISOLATION (dB) |               |               | INSERTION LOSS (dB) |               |               | PHASE UNBALANCE (Degrees) |           |           | AMPLITUDE UNBALANCE (dB) |           |           | PACKAGE | PIN-OUT<br>(See Below) | MODEL    |
|--------------------------|----------------|---------------|---------------|---------------------|---------------|---------------|---------------------------|-----------|-----------|--------------------------|-----------|-----------|---------|------------------------|----------|
|                          | LB<br>TYP/MIN  | MB<br>TYP/MIN | UB<br>TYP/MIN | LB<br>TYP/MAX       | MB<br>TYP/MAX | UB<br>TYP/MAX | LB<br>MAX                 | MB<br>MAX | UB<br>MAX | LB<br>MAX                | MB<br>MAX | UB<br>MAX |         |                        |          |
| 2-200                    | 30/23          | 27/20         | 23/18         | 0.6/0.8             | 0.4/0.7       | 0.7/1.0       | 3.0                       | 3.0       | 3.0       | 0.4                      | 0.3       | 0.4       | 159     | 1                      | SDL-110  |
| 5-750                    | 25/18          | 25/20         | 23/18         | 0.6/1.4             | 0.8/1.6       | 1.5/1.8       | 3.0                       | 5.0       | 7.0       | 0.3                      | 0.5       | 0.75      | 159     | 1                      | SDL-135  |
| 5-750                    | 25/18          | 25/20         | 23/18         | 0.6/1.4             | 0.8/1.6       | 1.5/1.8       | 3.0                       | 5.0       | 7.0       | 0.3                      | 0.5       | 0.75      | 134J    | 1                      | SDZ-135  |
| 720-800                  | ---/---        | ---/---       | 18/15         | ---/---             | ---/---       | 1.0/1.4       | --                        | --        | 5.0       | --                       | --        | 0.7       | 159     | 1                      | SDL-115† |
| 850-950                  | ---/---        | ---/---       | 17/13         | ---/---             | ---/---       | 1.0/1.4       | --                        | --        | 5.0       | --                       | --        | 0.7       | 159     | 1                      | SDL-137† |

### SURFACE-MOUNT

133M

| FREQUENCY RANGE<br>(MHz) | ISOLATION (dB) |               |               | INSERTION LOSS (dB) |               |               | PHASE UNBALANCE (Degrees) |           |           | AMPLITUDE UNBALANCE (dB) |           |           | PACKAGE | PIN-OUT<br>(See Below) | MODEL   |
|--------------------------|----------------|---------------|---------------|---------------------|---------------|---------------|---------------------------|-----------|-----------|--------------------------|-----------|-----------|---------|------------------------|---------|
|                          | LB<br>TYP/MIN  | MB<br>TYP/MIN | UB<br>TYP/MIN | LB<br>TYP/MAX       | MB<br>TYP/MAX | UB<br>TYP/MAX | LB<br>MAX                 | MB<br>MAX | UB<br>MAX | LB<br>MAX                | MB<br>MAX | UB<br>MAX |         |                        |         |
| 1700-2200                | --/--          | --/--         | 23/18         | --/--               | --/--         | 0.4/0.8       | --                        | --        | 5.0       | --                       | --        | 0.5       | 133M    | 2                      | SPD-C9† |

### New! SYNSTRIP™ SURFACE MOUNT

242

| FREQUENCY RANGE<br>(MHz) | ISOLATION (dB)<br>Full Band<br>TYP/MIN | INSERTION LOSS (dB)<br>Full Band<br>TYP/MAX | PHASE UNBALANCE (Degrees)<br>Full Band<br>TYP/MAX | AMPLITUDE UNBALANCE (dB)<br>Full band<br>TYP/MAX | VSWR<br>TYP/MAX | PACKAGE | PIN-OUT<br>(See Below) | MODEL    |
|--------------------------|----------------------------------------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------|-----------------|---------|------------------------|----------|
| 2000 - 2500              | 25/18                                  | 0.2/0.3                                     | 2.0/3.0                                           | ±0.2/0.3                                         | 1.3:1/1.4:1     | 242     | 3                      | P3D2025* |

\* With mismatch of 1.5:1 or less

Power Rating (All Models) = 1 Watt, max

† (UB) - Denotes full bandwidth specification

For pin location and package outline drawings, see back pages.

LB = LF to 10 LF  
MB = 10 LF to HF/2  
UB = HF/2 to HF

PIN-OUT TABLE

|    | INPUT | OUTPUT | CASE GROUND |
|----|-------|--------|-------------|
| #1 | 6     | 1,3,4  | 2,5         |
| #2 | 1     | 2,3,4  |             |
| #3 | 1     | 2,3,4  | All Others  |

# POWER DIVIDERS

## 0° : 3-WAY

### THROUGH HOLE MOUNT (8 Pin-Relay Can)



| FREQUENCY RANGE<br>(MHz) | ISOLATION (dB) |               |               | INSERTION LOSS (dB) |               |               | PHASE UNBALANCE (Degrees) |           |           | AMPLITUDE UNBALANCE (dB) |           |           | PACKAGE | PIN-OUT (See Below) | MODEL     |
|--------------------------|----------------|---------------|---------------|---------------------|---------------|---------------|---------------------------|-----------|-----------|--------------------------|-----------|-----------|---------|---------------------|-----------|
|                          | LB<br>TYP/MIN  | MB<br>TYP/MIN | UB<br>TYP/MIN | LB<br>TYP/MAX       | MB<br>TYP/MAX | UB<br>TYP/MAX | LB<br>MAX                 | MB<br>MAX | UB<br>MAX | LB<br>MAX                | MB<br>MAX | UB<br>MAX |         |                     |           |
| 0.01-30                  | 35/30          | 40/25         | 30/25         | .25/.45             | .15/.45       | .45/.75       | 1.0                       | 2.0       | 4.0       | 0.2                      | 0.3       | 0.4       | 102     | 1                   | DCP-2A1   |
| 1-200                    | 45/27          | 40/30         | 40/25         | 0.6/1.0             | 0.4/0.7       | 0.6/1.0       | 1.0                       | 2.0       | 4.0       | 0.2                      | 0.2       | 0.4       | 102     | 1                   | DCP-2B2   |
| 1-200                    | 35/23          | 35/25         | 35/25         | 0.6/1.0             | 0.3/0.7       | 0.6/1.0       | 2.0                       | 3.0       | 4.0       | 0.2                      | 0.2       | 0.3       | 102     | 1                   | DCP-2C2 ■ |
| 5-500                    | 25/20          | 31/15         | 25/15         | 0.4/0.8             | 0.4/1.4       | 0.8/1.4       | 6.0                       | 8.0       | 10        | 0.2                      | 0.3       | 0.6       | 102     | 2                   | DCP-2B3   |
| 10-1000                  | 25/20          | 23/18         | 23/18         | 0.6/1.0             | 0.8/1.3       | 1.2/2.0       | 6.0                       | 8.0       | 12        | 0.2                      | 0.4       | 0.8       | 102     | 2                   | DCP-2B4   |

### COAXIAL CONNECTOR



| FREQUENCY RANGE<br>(MHz) | ISOLATION (dB) |               |               | INSERTION LOSS (dB) |               |               | PHASE UNBALANCE (Degrees) |           |           | AMPLITUDE UNBALANCE (dB) |           |           | PACKAGE | PIN-OUT (See Below) | MODEL    |
|--------------------------|----------------|---------------|---------------|---------------------|---------------|---------------|---------------------------|-----------|-----------|--------------------------|-----------|-----------|---------|---------------------|----------|
|                          | LB<br>TYP/MIN  | MB<br>TYP/MIN | UB<br>TYP/MIN | LB<br>TYP/MAX       | MB<br>TYP/MAX | UB<br>TYP/MAX | LB<br>MAX                 | MB<br>MAX | UB<br>MAX | LB<br>MAX                | MB<br>MAX | UB<br>MAX |         |                     |          |
| 1-200                    | 45/30          | 48/35         | 37/30         | 0.25/0.5            | .35/0.6       | .35/0.6       | 1.0                       | 3.0       | 5.0       | 0.1                      | 0.2       | 0.2       | 113     | 3                   | DCK-7K2* |
| 1-500                    | 30/20          | 30/20         | 25/18         | 0.4/0.75            | 0.5/0.9       | 0.8/1.2       | 2.0                       | 3.0       | 4.0       | 0.2                      | 0.3       | 0.4       | 113     | 3                   | DCK-7J2* |
| 2-750                    | 30/20          | 30/20         | 25/18         | 0.4/0.75            | 0.5/1.0       | 1.0/1.6       | 3.0                       | 5.0       | 7.0       | 0.2                      | 0.3       | 0.5       | 113     | 3                   | DCK-7D3* |
| 10-1000                  | 25/20          | 20/17         | 20/17         | 0.5/0.75            | 0.7/1.0       | 1.2/2.0       | 3.0                       | 5.0       | 7.0       | 0.3                      | 0.4       | 0.7       | 113     | 3                   | DCK-703S |

Power Rating (All Models) = 1 Watt, max

\* Select female connector suffix: "B" = BNC, "S" = SMA, "N" = Type N, "T" = TNC

■ 75 Ohm Model

For pin location and package outline drawings, see back pages.

PIN-OUT TABLE

|    | INPUT | OUTPUT | CASE GROUND |
|----|-------|--------|-------------|
| #1 | 6     | 1,2,5  | 3,4,7,8     |
| #2 | 1     | 5,7,8  | 2,3,4,6     |
| #3 | 1     | 2,3,4  | -           |

LB = LF to 10 LF  
MB = 10 LF to HF/2  
UB = HF/2 to HF