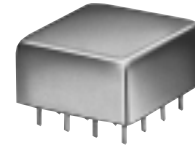


## 2 WAY-0° RESISTIVE DC to 4200 MHz



ZFRSC



PRSC

| MODEL NO.    | FREQ. RANGE MHz<br>$f_L$ - $f_U$ | ISOLATION dB |        |        | INSERTION LOSS, dB Above 6dB |        |        |        |        |        | PHASE UNBALANCE Degrees |        |        | AMPLITUDE UNBALANCE dB |        |        | CASE STYLE<br>Note B | CONNECTION | PRICE \$<br>Qty. (1-9) |
|--------------|----------------------------------|--------------|--------|--------|------------------------------|--------|--------|--------|--------|--------|-------------------------|--------|--------|------------------------|--------|--------|----------------------|------------|------------------------|
|              |                                  | L Typ.       | M Typ. | U Typ. | L Typ.                       | L Max. | M Typ. | M Max. | U Typ. | U Max. | L Max.                  | M Max. | U Max. | L Max.                 | M Max. | U Max. |                      |            |                        |
| ▲ ZFRSC-42   | DC-4200                          | 6.2          | 6.5    | 7.0    | 0.1                          | 0.2    | 0.1    | 0.5    | 0.4    | 1.4    | 1                       | 3      | 5      | 0.1                    | 0.2    | 0.5    | K18                  | ar         | 59.95                  |
| ■ ZFRSC-2075 | DC-2000                          | 6.2          | 6.6    | 7.0    | 0.1                          | 0.2    | 0.3    | 0.6    | 0.5    | 1.4    | 1                       | 2      | 5      | 0.1                    | 0.2    | 0.5    | K18                  | ar         | 59.95                  |
| ZFRSC-2050   | DC-2000                          | 6.2          | 6.6    | 7.0    | 0.1                          | 0.2    | 0.3    | 0.6    | 0.5    | 1.4    | 1                       | 2      | 5      | 0.1                    | 0.2    | 0.5    | K18                  | ar         | 59.95                  |
| PRSC-2050    | DC-2000                          | 6.0          | 6.2    | 6.5    | 0.1                          | 0.3    | 0.2    | 0.7    | 0.5    | 1.0    | 1                       | 3      | 5      | 0.1                    | 0.3    | 0.5    | C145                 | au         | 31.95                  |

L = DC to 100 MHz

M = mid range [100 MHz to  $f_U/2$ ]

U = upper range [ $f_U/2$  to  $f_U$ ]

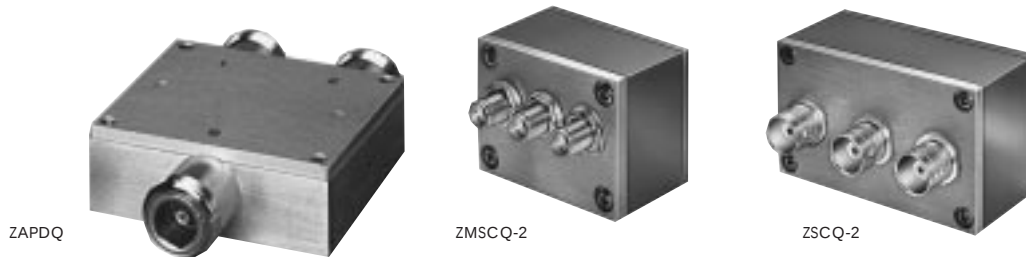
Above models are resistive power dividers to enable frequency coverage from dc to the highest rated frequency. Since resistive power dividers do not provide a high degree of isolation (basically isolation equals the insertion loss between ports), an amplifier such as Mini-Circuits' ZFL series is recommended when high isolation is required. Matched power rating 0.75W, internal load dissipation 0.375W.

### NOTES:

- Denotes 75 Ohm model, for coax connector models 75 Ohm BNC connectors are standard.
- ▲ Available only with SMA connectors
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in General Information (Section 0).
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & Outline Drawings".
- C. Prices and specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
  - 1a. Matched power rating,  
model ZAPDQ 10 Watt  
all other models 1 Watt
  - 1b. Internal load dissipation, 0.125 Watt

## Plug-In & Coaxial

# 2 Way-90° 25 to 4200 MHz



| MODEL NO.   | FREQ. RANGE MHz<br>$f_L$ - $f_U$ | ISOLATION dB |      | INSERTION LOSS, dB<br>Avg. of Coupled Outputs less 3 dB |      | PHASE UNBALANCE Degrees | AMPLITUDE UNBALANCE dB | CASE STYLE | CONNECTION | PRICE \$   |
|-------------|----------------------------------|--------------|------|---------------------------------------------------------|------|-------------------------|------------------------|------------|------------|------------|
|             |                                  | Typ.         | Min. | Typ.                                                    | Max. | Max.                    | Max.                   | Note B     |            | Qty. (1-9) |
| ZAPDQ-2     | 1000-2000                        | 22           | 16   | 0.4                                                     | 1.4  | 6.0                     | 0.8                    | F14        | ar         | 79.95      |
| ZAPDQ-4     | 2000-4200                        | 22           | 16   | 0.4                                                     | 0.9  | 8.0                     | 1.0                    | F14        | ar         | 79.95      |
| ZMSCQ-2-50  | 25-50                            | 30           | 20   | 0.3                                                     | 0.7  | 3.0                     | 1.5                    | M21        | at         | 61.95      |
| ZMSCQ-2-90  | 55-90                            | 30           | 20   | 0.3                                                     | 0.7  | 3.0                     | 1.2                    | M21        | at         | 61.95      |
| ZMSCQ-2-120 | 80-120                           | 25           | 18   | 0.3                                                     | 0.7  | 3.0                     | 1.5                    | M21        | at         | 61.95      |
| ZMSCQ-2-180 | 120-180                          | 23           | 15   | 0.3                                                     | 0.7  | 4.0                     | 1.2                    | M21        | at         | 61.95      |
| ZSCQ-2-90   | 55-90                            | 30           | 20   | 0.3                                                     | 0.7  | 3.0                     | 1.2                    | M22        | at         | 54.95      |

L = low range [ $f_L$  to 10  $f_L$ ]

M = mid range [10  $f_L$  to  $f_U/2$ ]

U = upper range [ $f_U/2$  to  $f_U$ ]

### NSN GUIDE

| MCL NO.     | NSN              |
|-------------|------------------|
| ZAPDQ-4     | 5985-01-412-9064 |
| ZMSCQ-2-250 | 5985-01-394-4982 |
| ZFRSC-2050B | 5985-01-310-5748 |
| ZFRSC-2075  | 5985-01-266-6144 |
| ZFRSC-42    | 5985-01-332-3083 |

\* units are not QPL listed

### pin and coaxial connections

see case style outline drawings for pin connections

| PORT     | ar | at | au                    |
|----------|----|----|-----------------------|
| SUM PORT | 3  | 2  | 5                     |
| PORT 1   | 1  | 1  | 3                     |
| PORT 2   | 2  | 3  | 15                    |
| GND EXT. | —  | —  | 1,2,4,8,9,12,13,14,16 |
| CASE GND | —  | —  | 1,2,4,8,9,12,13,14,16 |