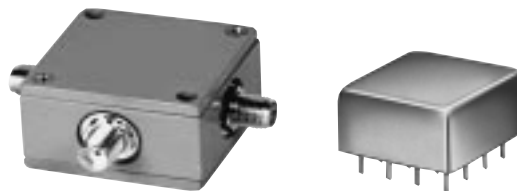


POWER SPLITTERS/COMBINERS

50Ω

2 WAY-0° RESISTIVE DC to 4200 MHz



ZFRSC

PRSC

| MODEL NO. | FREQ. RANGE MHz f_L - f_U | ISOLATION dB | | | INSERTION LOSS, dB Above 6dB | | | | | | PHASE UNBALANCE Degrees | | | AMPLITUDE UNBALANCE dB | | | CASE STYLE Note B | CONNECTION | PRICE \$ 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]

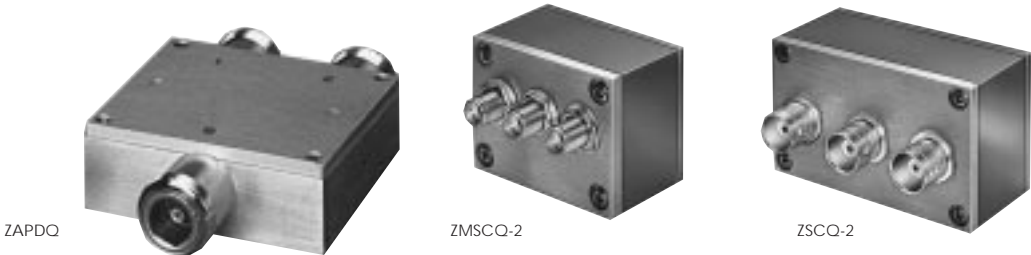
Above models are resistive power dividers to enable frequency coverage from dc to the highest rated frequency. Since resistive power dividers do not provide a high degree of isolation (basically isolation equals the insertion loss between ports), an amplifier such as Mini-Circuits' ZFL series is recommended 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 f_L - f_U | ISOLATION dB | | INSERTION LOSS, dB 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 |

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 |



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