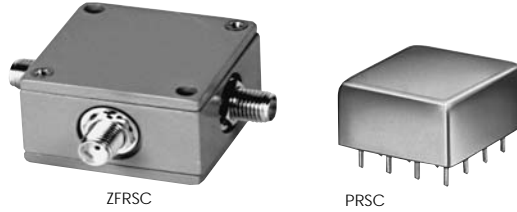


# POWER SPLITTERS/COMBINERS

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 \$ ea. Qty. (1-9)
		L Typ.	M Typ.	U Typ.	L Typ. Max.	M Typ. Max.	U Typ. Max.	L Typ. Max.	M Typ. Max.	U Typ. 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	34.20

L = DC to 100 MHz

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

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

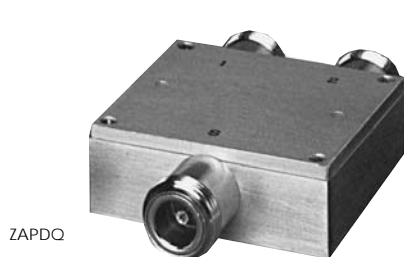
Above models are resistive power dividers to enable frequency coverage from dc to the highest rated frequency. Since resistive power dividers do not provide a high degree of isolation (basically isolation equals the insertion loss between ports), an amplifier such as Mini-Circuits' ZFL series is recommended 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 Max.	AMPLITUDE UNBALANCE dB Max.	CASE STYLE Note B	PRICE \$ ea. Qty. (1-9)	
		Typ.	Min.	Typ.	Max.					
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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