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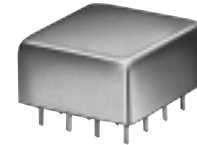
POWER SPLITTERS/COMBINERS

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	CONSTRUCTION	PRICE \$ Qty. (1-9)
		L Typ.	M Typ.	U Typ.	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	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]

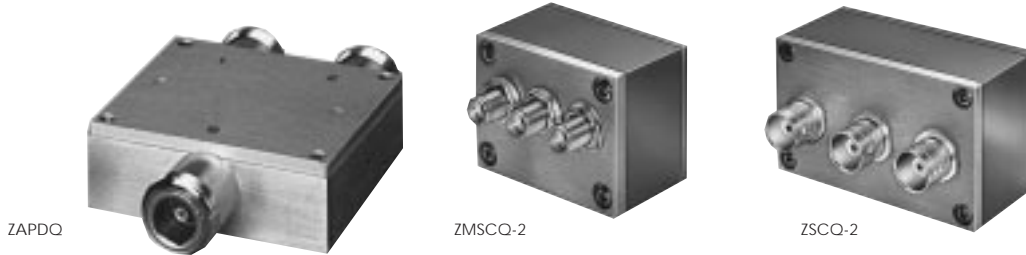
Above models are resistive power dividers to enable frequency coverage from dc to the highest rated frequency. Since resistive power dividers do not provide a high degree of isolation (basically isolation equals the insertion loss between ports), an amplifier such as Mini-Circuits' ZFL series is recommended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

* units are not OPL 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



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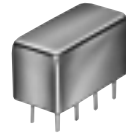
For Custom Versions Of Standard Models
Consult Our Applications Dept.



POWER SPLITTERS/COMBINERS 50Ω

Plug-In

2 WAY-90° 0.42 MHz to 1875 MHz



PSCQ-2 / PQW-2

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	CONNECTION	PRICE \$ Qty. (1-9)
		Typ.	Min.	Typ.	Max.					
PQW-2-90	30-90	27	20	0.3	0.6	3	1.0	A01	gy	29.95
PQW-2-270	90-270	20	17	0.4	0.7	4	1.4	A01	gy	31.95
PSCQ-2-0.455	0.42-0.51	30	25	0.1	0.5	3	1.2	A01	aw	27.95
PSCQ-2-1.25	1.13-1.38	29	25	0.4	0.7	3	1.2	A01	aw	15.95
PSCQ-2-3.4	3.0-3.8	30	25	0.4	0.7	3.8	1.2	A01	aw	21.95
PSCQ-2-4	3.5-4.5	36	25	0.4	0.7	3	1.5	A01	aw	15.95
PSCQ-2-7.5	7-8	35	25	0.4	0.7	3	1.2	A01	aw	15.95
PSCQ-2-8	2-8	36	27	0.3	0.7	6	0.5	A01	gx	51.95
PSCQ-2-10.5	9-11	25	20	0.4	0.7	3	1.2	A01	aw	15.95
PSCQ-2-13	12-14	29	25	0.4	0.7	3	1.2	A01	aw	15.95
PSCQ-2-14	12-16	30	25	0.3	0.6	3	1.8	A01	aw	21.95
PSCQ-2-21.4	20-23	30	25	0.4	0.7	3	1.2	A01	aw	15.95
PSCQ-2-26	14-30	25	20	0.4	0.7	3	1.5	A01	aw	25.95
PSCQ-2-32	3.2-32	32	25	0.4	0.8	5	0.4	A01	gx	91.95
PSCQ-2-40	23-40	21	18	0.3	0.7	3	1.5	A01	aw	21.95
PSCQ-2-50	25-50	30	20	0.3	0.7	3	1.5	A01	aw	25.95
PSCQ-2-70	40-70	30	20	0.3	0.7	3	1.5	A01	aw	25.95
PSCQ-2-70N	66-74	22	19	0.2	0.5	0.8	0.25	A01	aw	25.95
PSCQ-2-85A	55-85	35	20	0.3	0.6	3	0.6	A01	ax	26.95
PSCQ-2-90	55-90	30	20	0.3	0.7	3	1.2	A01	aw	25.95
PSCQ-2-120	80-120	25	18	0.3	0.7	3	1.5	A01	aw	25.95
PSCQ-2-160	100-160	24	19	0.3	0.7	3	1.5	A01	aw	25.95
PSCQ-2-180	120-180	23	15	0.3	0.7	4	1.2	A01	aw	25.95
PSCQ-2-250	150-250	30	22	0.4	0.8	4	1.5	A01	aw	25.95
PSCQ-2-400	250-400	23	16	0.5	0.9	4	1.5	A01	aw	25.95
PSCQ-2-450	350-450	23	16	0.5	0.9	5	1.5	A01	aw	25.95
PSCQ-2-550	450-550	19	15	0.4	0.7	5	1.5	A01	aw	25.95
PSCQ-2-1000	800-1000	27	20	0.28	0.6	3	1.3	A05	ax	27.95

NOTES:

- ◆ Aqueous washable. For non-aqueous requirements, LRPO units available in case style QQQ130.
- Non-hermetic
- * Protected under U.S. patent 6133525
- ** LRPO units have bottom barrier ground plane insulated with glass barrier.
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in section 0, see "Mini-Circuits Guarantees Quality" article.
- 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

models PSCQ-2-8, PSCQ-2-32	50mWatt
models SCPO-10.5	0.5 Watt
all other models	1Watt
 - 1b. Internal load dissipation 0.125 Watt

NSN GUIDE

MCL NO.	NSN
PSCQ-2-21.4	6625-01-415-3074
PSCQ-2-180	6625-01-186-4456
PSCQ-2-90	6625-01-160-0151
PSCQ-2-70	5985-01-292-8834
PSCQ-2-50	5895-01-374-0023
PSCQ-2-550	5895-01-347-0206



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Surface Mount □



ADPQ JSPO (BK343) JSPO (BK276) JYPO LRPO-J RPO SCPO SYPO

MODEL NO.	FREQ. RANGE MHz f_c - 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	NOTES	PRICE \$ Qty. (1-9)
		Typ.	Min.	Typ.	Max.					
NEW ◆ ADPQ-2-250*	150-250	24	17	0.2	0.7	4	1.4	CD637	ay	9.95
◆ JSPO-80	10-80	44	30	0.45	1.4	6	0.6	BK276	mq	19.95
◆ JSPO-350	150-350	20	13	0.5	1.0	5	1.5	BK276	lu	14.95
◆ JSPO-1875W	1325-1875	28	18	0.2	0.5	6	1.0	BK343	ja	17.95
◆ JSPO-100	40-100	24	18	0.2	0.6	3	1.2	BK276	hm	14.95
NEW ◆ JSPO-100A	30-100	41	30	0.5	1.1	4	0.6	BK276	mq	19.95
NEW JYPO-16	10-16	43	25	0.2	0.6	4	0.9	BJ293	kx	19.95
JYPO-30	16-30	28	20	0.2	0.7	3	1.5	BJ293	kx	14.95
JYPO-160	105-160	24	17	0.25	0.6	3	1.5	BJ293	kx	14.95
◆ LRPO-70J**	65-75	30	20	0.1	0.5	3	1	QQQ569	ay	9.95
◆ LRPO-700J**	500-700	23	18	0.2	0.6	3	1.8	QQQ569	ay	9.95
◆ LRPO-980J**	820-980	28	20	0.15	0.5	4	1	QQQ569	ay	13.95
◆ LRPO-320J**	270-320	21	18	0.3	0.6	3	1.2	QQQ569	lr	10.95
RPO-820	760-860	22	15	0.15	0.7	4	1	TT240	gp	13.95
RPO-1495	1400-1600	18	14	0.3	0.8	5	1	TT240	gp	15.95
SCPO-10.5	9-11	31	20	0.15	0.7	3	1.2	YY101	aw	13.95
SCPO-21.4	20-23	32	25	0.15	0.5	2.5	1	YY101	aw	13.95
SCPO-50	25-50	25	20	0.15	0.7	3	1.5	YY101	aw	14.95
SCPO-60	30-60	30	20	0.15	0.7	3	1.5	YY101	aw	14.95
SCPO-85C	55-85	30	20	0.3	0.6	3	0.6	YY101	gy	14.95
SCPO-90	55-90	26	20	0.2	0.7	3	1.2	YY101	aw	13.95
SCPO-150	95-150	22	18	0.3	0.7	3	1.2	YY101	aw	14.95
SCPO-180	120-180	20	16	0.3	0.7	3	1.2	YY161	aw	13.95
SCPO-400	250-400	20	16	0.3	0.7	3	1.2	YY161	aw	14.95
SYPO-70	65-75	31	24	0.1	0.4	3	1.1	AH202	av	13.95

pin connections see case style outline drawings

PORT	av	aw	ax	ay	gp	gx	gy	hm	ja	kx	lu	lr	mq
SUM PORT	1	1	1	6	4	1	1	9	1	8	1	1	1
PORT 1	5	2	2	4	1	2	2(0°)	2(0°)	8	1	3(0°)	3	7
PORT 2	8	5	8	1	3	5	6(90°)	6(-90°)	14	4	12(90°)	6	8
GND EXT.	2,3,6,7	3,4,7,8	3,4,5,6	2,5	2,5	3,4,7,8	3,4,7,8	1,3,4,5,7,8	2,3,4,5,6,9	2,3,6,7	5,7,8,10	2,5	2,3,4,5,6,9
50 OHM TERM.	4	6	7	3	6	—	5	10,11,12,14	10,11,12,13	5	14	4	—
NOT USED	—	—	—	—	—	—	—	—	—	—	2,4,6,9,11,13	—	—



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