

Coaxial

Power Splitter/Combiner

ZFRSC-123+

2 Way-0° Resistive 50Ω DC to 12000 MHz



CASE STYLE: JJJ245

Connectors Model
SMA ZFRSC-123-S+
BRACKET (OPTION "B")

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

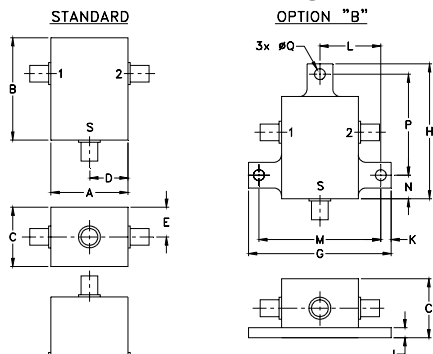
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.16W max.
Internal Dissipation	0.08W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
0.75	1.00	0.58	0.38	0.29	0.35	1.39	1.32
19.05	25.4	14.732	9.65	7.37	8.89	35.31	33.53
J	K	L	M	N	P	Q	wt
0.10	0.10	0.595	1.19	0.23	0.995	0.106	grams
2.54	2.54	15.11	30.23	5.84	25.27	2.69	22.0

Features

- very wideband, DC to 12000 MHz
- very good phase unbalance, 1 deg. typ.
- excellent amplitude unbalance, 0.1 dB typ.
- rugged shielded case

Applications

- laboratory
- IP3 test set-ups

Electrical Specifications $T_{AMB}=25^{\circ}\text{C}$

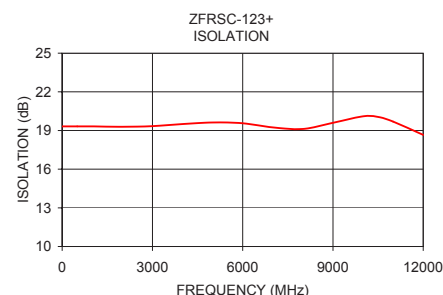
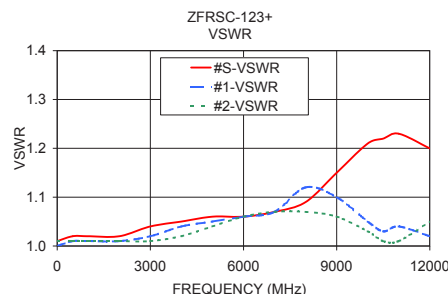
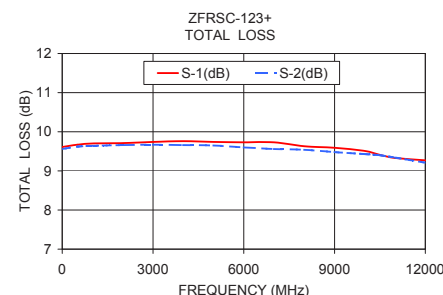
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB				PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
	L	U	L		U		L	U	L	U
f_L-f_U	Typ.	Typ.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.
DC-12000	19.5	19.5	3.5	4.0	3.5	4.0	3	5	0.25	0.4

L = DC-6000 MHz U = 6000-12000 MHz

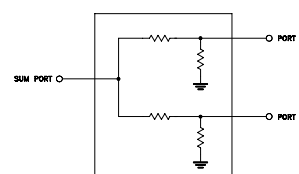
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1.00	9.61	9.56	0.05	19.32	0.06	1.01	1.00	1.01
500.00	9.67	9.62	0.05	19.32	0.07	1.02	1.01	1.01
1000.00	9.70	9.64	0.06	19.32	0.21	1.02	1.01	1.01
2000.00	9.71	9.66	0.05	19.29	0.48	1.02	1.01	1.01
3000.00	9.74	9.67	0.07	19.34	0.61	1.04	1.02	1.01
4000.00	9.76	9.66	0.10	19.50	0.78	1.05	1.04	1.02
5000.00	9.74	9.65	0.09	19.62	1.20	1.06	1.05	1.04
6000.00	9.73	9.60	0.13	19.56	1.60	1.06	1.06	1.06
7000.00	9.73	9.56	0.17	19.24	1.46	1.07	1.07	1.07
8000.00	9.63	9.54	0.09	19.12	1.56	1.09	1.12	1.07
9000.00	9.59	9.48	0.11	19.60	2.82	1.15	1.10	1.06
10000.00	9.51	9.43	0.07	20.10	2.52	1.21	1.05	1.03
10500.00	9.41	9.40	0.01	20.05	2.37	1.22	1.03	1.01
11000.00	9.33	9.34	0.00	19.69	2.67	1.23	1.04	1.01
12000.00	9.27	9.21	0.07	18.66	2.79	1.20	1.02	1.05

1. Total Loss = Insertion Loss + 6dB splitter loss.



electrical schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. D
M151107
ZFRSC-123+
ED-13066/2
AD/CP/AM
151016