Coaxial

Power Splitter/Combiner

Z99SC-62-S+

2 Way-0° 50Ω 0.5 to 600 MHz



Generic photo used for illustration purposes only

CASE STYLE: F183

Connectors	Model
SMA	Z99SC-62-S+

+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)	1W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

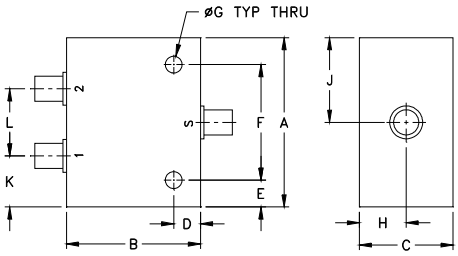
Features

- wideband, 0.5 to 600 dB typ.
- high isolation, 28 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- rugged shielded case

Applications

- UHF
- instrumentation
- communication systems

Outline Drawing

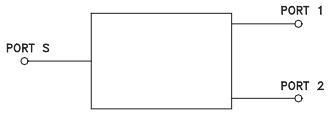


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
1.26	1.00	.70	.200	.200	.860	.125
32.00	25.40	17.78	5.08	5.08	21.84	3.18

H	J	K	L	wt
.35	.63	.38	.50	grams
8.89	16.00	9.65	12.70	24.0

Electrical Schematic



Electrical Specifications at 25°C

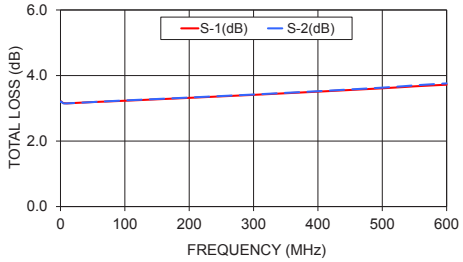
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		0.5		600	MHz
Insertion Loss Above 3.0 dB	0.5-5	—	0.3	0.6	dB
	5-300	—	0.5	0.8	
	300-600	—	0.7	1.4	
Isolation	0.5-5	18	25	—	dB
	5-300	16	20	—	
	300-600	12	16	—	
Phase Unbalance	0.5-5	—	0.2	1	Degree
	5-300	—	0.1	1	
	300-600	—	0.2	2	
Amplitude Unbalance	0.5-5	—	0.01	0.1	dB
	5-300	—	0.01	0.2	
	300-600	—	0.05	0.3	
VSWR (Port S)	0.5-5	—	1.1	1.4	:1
	5-300	—	1.2	1.4	
	300-600	—	1.4	1.6	
VSWR (Port 1-2)	0.5-5	—	1.2	1.5	:1
	5-300	—	1.1	1.2	
	300-600	—	1.15	1.3	

Typical Performance Data

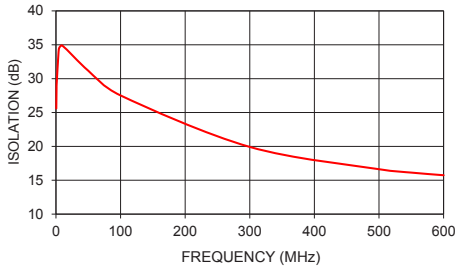
Frequency (MHz)	Total Loss[1] (dB) S-1	Total Loss[1] (dB) S-2	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
0.50	3.21	3.20	0.01	25.60	0.20	1.15	1.26	1.25
0.90	3.21	3.21	0.00	28.66	0.10	1.10	1.16	1.15
1.00	3.21	3.20	0.00	29.13	0.08	1.10	1.15	1.14
4.00	3.16	3.16	0.00	33.97	0.02	1.06	1.06	1.06
5.00	3.16	3.15	0.00	34.54	0.02	1.06	1.06	1.06
10.00	3.15	3.15	0.00	34.87	0.01	1.05	1.04	1.04
50.00	3.19	3.19	0.00	31.17	0.01	1.06	1.04	1.04
100.00	3.23	3.24	0.00	27.52	0.01	1.08	1.03	1.03
300.00	3.41	3.42	0.01	19.92	0.06	1.21	1.03	1.02
500.00	3.61	3.63	0.02	16.63	0.07	1.34	1.10	1.11
550.00	3.67	3.70	0.03	16.13	0.06	1.37	1.13	1.13
600.00	3.72	3.76	0.03	15.74	0.05	1.40	1.15	1.16

1. Total Loss = Insertion Loss + 3dB splitter loss.

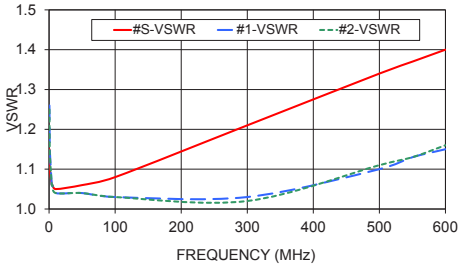
Z99SC-62-S+
TOTAL LOSS



Z99SC-62-S+
ISOLATION



Z99SC-62-S+
VSWR



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-Circuits 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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