

Non-Catalog Model

Power Splitter/Combiner

TO8SC-2-11

2 Way-0°

Important Note

This is a non-catalog model and can be manufactured on specific request.
Pricing and delivery information can be supplied upon request.

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CASE STYLE : QQ96

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1140		1740 MHz
Isolation	1140 - 1740 MHz		20	dB
Insertion Loss Above 3.0 dB	1140 - 1740 MHz		0.75	dB
Phase Unbalance	1140 - 1740 MHz			6.000 deg.
Amplitude Unbalance	1140 - 1740 MHz		0.128	0.300 dB
VSWR	SUM Port		1.20	(:1)
	OUT Ports		1.60	(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C

PIN CONNECTIONS	
SUM PORT	5
PORT 1	9
PORT 2	1
GND EXT	3, 7, 10, 11,12

Functional Diagram



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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2				S	1	2
1140.0	3.35	3.41	0.06	21.37	1140.0	1.42	1.22	1.35
1150.0	3.35	3.40	0.05	21.50	1150.0	1.41	1.21	1.34
1190.0	3.35	3.42	0.07	22.30	1190.0	1.38	1.20	1.33
1250.0	3.33	3.38	0.06	23.66	1250.0	1.33	1.18	1.31
1315.0	3.30	3.40	0.10	25.62	1315.0	1.28	1.15	1.29
1375.0	3.31	3.41	0.10	27.99	1375.0	1.23	1.13	1.27
1440.0	3.30	3.41	0.11	32.00	1440.0	1.18	1.11	1.25
1500.0	3.30	3.42	0.13	38.33	1500.0	1.12	1.10	1.23
1565.0	3.29	3.44	0.15	41.72	1565.0	1.06	1.08	1.21
1600.0	3.31	3.49	0.18	36.18	1600.0	1.03	1.07	1.21
1625.0	3.29	3.48	0.19	33.15	1625.0	1.01	1.06	1.20
1690.0	3.29	3.51	0.22	28.03	1690.0	1.05	1.05	1.20
1740.0	3.29	3.54	0.25	25.39	1740.0	1.11	1.04	1.20
1750.0	3.29	3.54	0.25	24.85	1750.0	1.12	1.04	1.20
1815.0	3.33	3.61	0.28	22.32	1815.0	1.29	1.03	1.22

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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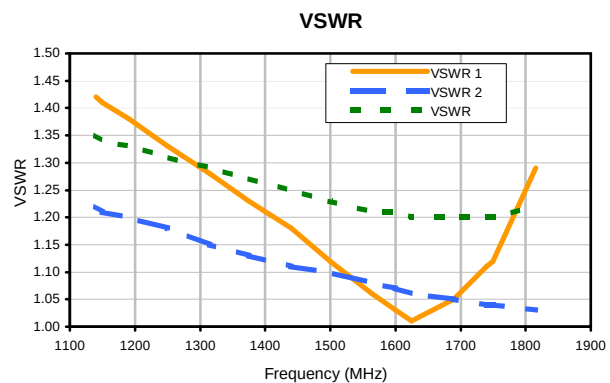
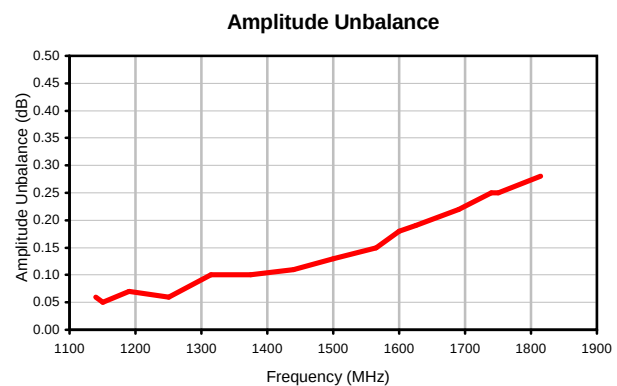
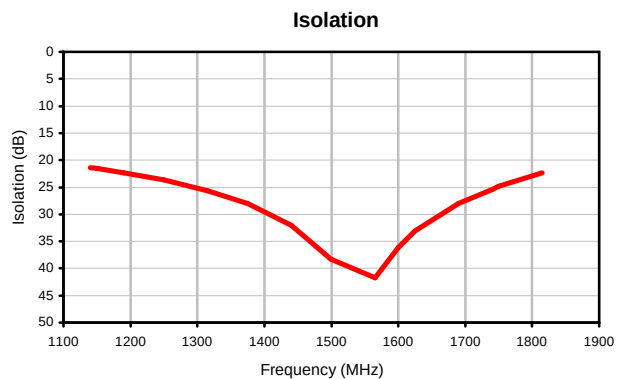
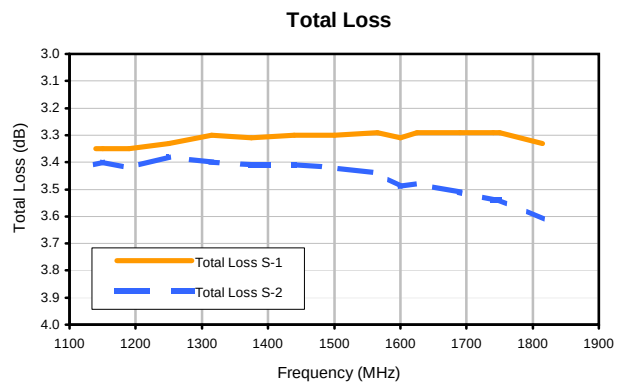
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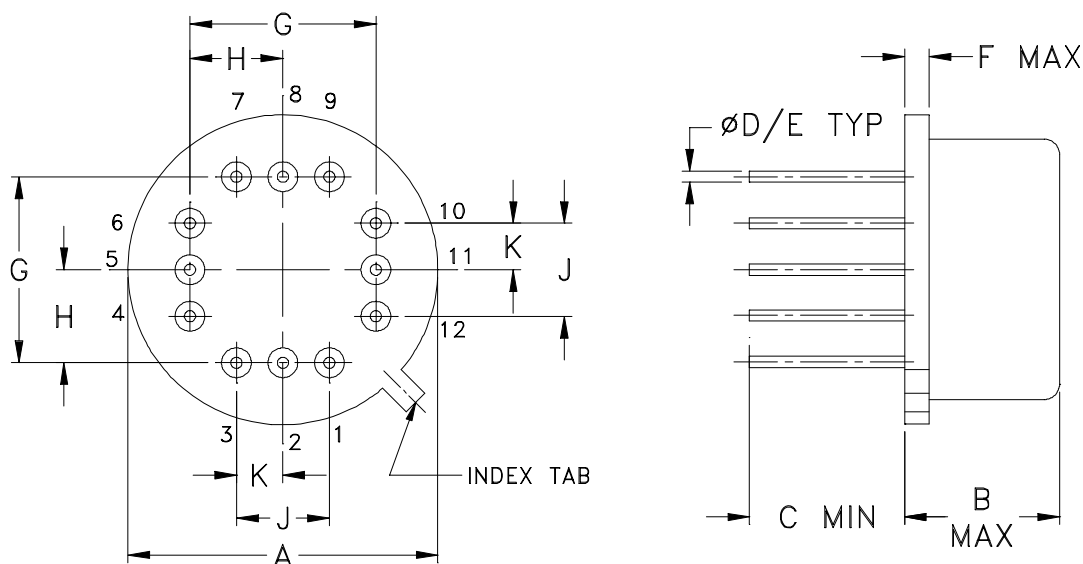
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Typical Performance Curves



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Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	WT. GRAM
QQ95	.500 (12.70)	.250 (6.35)	.25 (6.35)	.016 (.41)	.020 (.51)	.04 (1.02)	.300 (7.62)	.150 (3.81)	.150 (3.81)	.075 (1.91)	3.5
QQ96	.600 (15.24)	.250 (6.35)	.25 (6.35)	.016 (.41)	.020 (.51)	.04 (1.02)	.400 (10.16)	.200 (5.08)	.200 (5.08)	.100 (2.54)	4.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Header material: Kovar.
Pin material: Kovar.
Cover material: Nickel.
- Pin finish: Gold plate 25 μ inches (.64 microns) min.
- For pin designations see specification data sheet.
- Pin numbers do not appear on unit, for reference only.



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-54° to 85°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 10 cycles	MIL-STD-202, Method 107, Condition A, except +100°C & 10 cycles
Constant Acceleration	5000g, Y1 axis	MIL-STD-883, Method 2001, Condition A, except Y1 axis only
Solderability	10X Magnification	J-STD-002, 95% Coverage
Resistance to Solder Heat	260°C for 10 seconds	MIL-STD-202, Method 210, Condition B
Marking Resistance to Solvents	Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C	MIL-STD-202, Method 215
Gross Leak	125°C Bubble Test	MIL-STD-202, Method 112, Condition D