

Non-Catalog Model

Power Splitter/Combiner

LPS-109

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.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : BB48

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		10		500 MHz
Isolation	10 - 100 MHz	25	35	dB
	100 - 250 MHz	25	30	dB
	250 - 500 MHz	25	30	dB
Insertion Loss Above 3.0 dB	10 - 100 MHz		0.30	0.50 dB
	100 - 250 MHz		0.40	0.60 dB
	250 - 500 MHz		0.50	1.10 dB
Phase Unbalance	10 - 100 MHz			2.000 deg.
	100 - 250 MHz			3.000 deg.
	250 - 500 MHz			4.000 deg.
Amplitude Unbalance	10 - 100 MHz		0.093	0.150 dB
	100 - 250 MHz		0.098	0.200 dB
	250 - 500 MHz		0.120	0.300 dB
VSWR	SUM Port		0.13	(:1)
	OUT Ports		1.13	(:1)

Notes: Matched power rating: 1 Watt.
Internal load dissipation: 0.125 Watt.

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

PIN CONNECTIONS	
SUM PORT	1
PORT 1	4
PORT 2	5
GND EXT	2, 3, 6, 7, 8
CASE GND	2, 3, 6, 7, 8

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
10.0	3.19	3.29	0.10	49.87	10.0	1.09	1.12	1.14
34.5	3.16	3.25	0.09	42.08	34.5	1.10	1.11	1.13
59.0	3.19	3.28	0.09	37.67	59.0	1.11	1.11	1.13
83.5	3.20	3.29	0.09	35.19	83.5	1.11	1.11	1.13
108.0	3.21	3.30	0.09	33.43	108.0	1.11	1.11	1.13
132.5	3.22	3.33	0.11	32.10	132.5	1.12	1.11	1.13
157.0	3.24	3.34	0.10	31.06	157.0	1.12	1.11	1.13
206.0	3.27	3.36	0.09	29.55	206.0	1.12	1.10	1.12
255.0	3.28	3.39	0.11	28.67	255.0	1.12	1.10	1.12
304.0	3.31	3.42	0.11	28.29	304.0	1.13	1.11	1.11
353.0	3.34	3.46	0.12	28.41	353.0	1.14	1.12	1.12
402.0	3.36	3.48	0.12	28.79	402.0	1.18	1.15	1.13
426.5	3.36	3.48	0.12	28.93	426.5	1.21	1.17	1.14
451.0	3.40	3.52	0.12	28.84	451.0	1.25	1.20	1.16
500.0	3.49	3.63	0.14	27.07	500.0	1.37	1.26	1.20

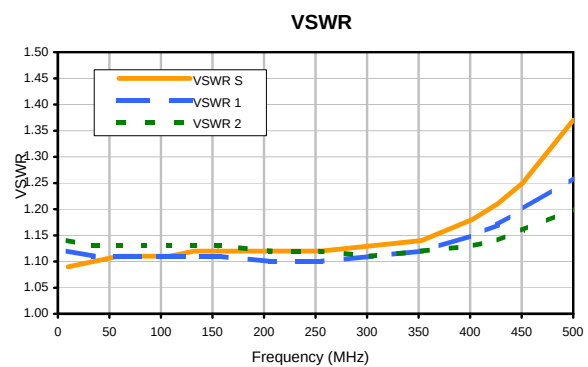
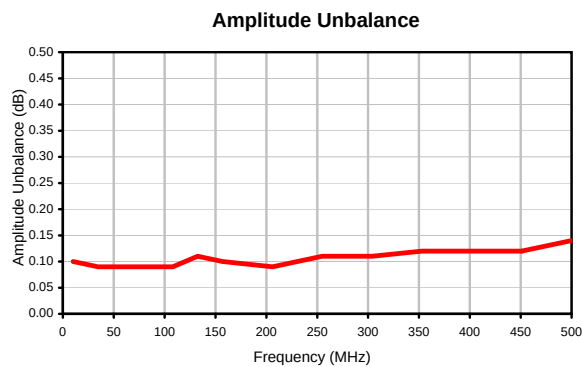
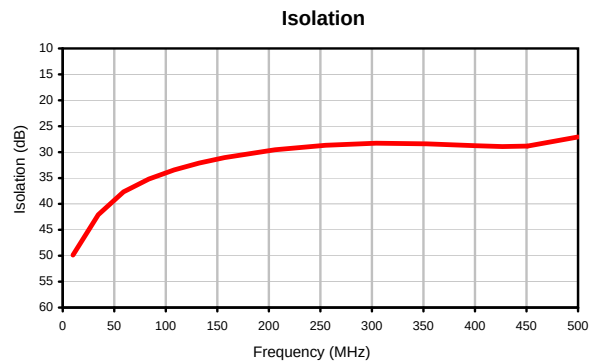
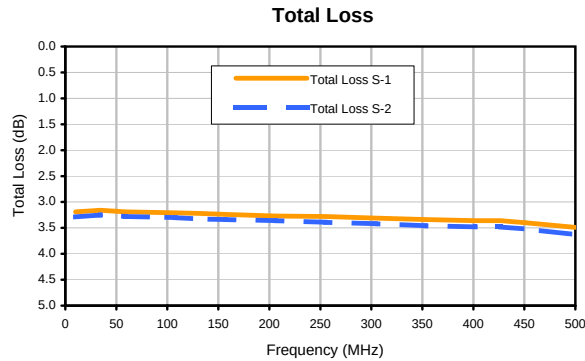
¹ Total Loss = Insertion Loss+ 3dB Splitter Loss



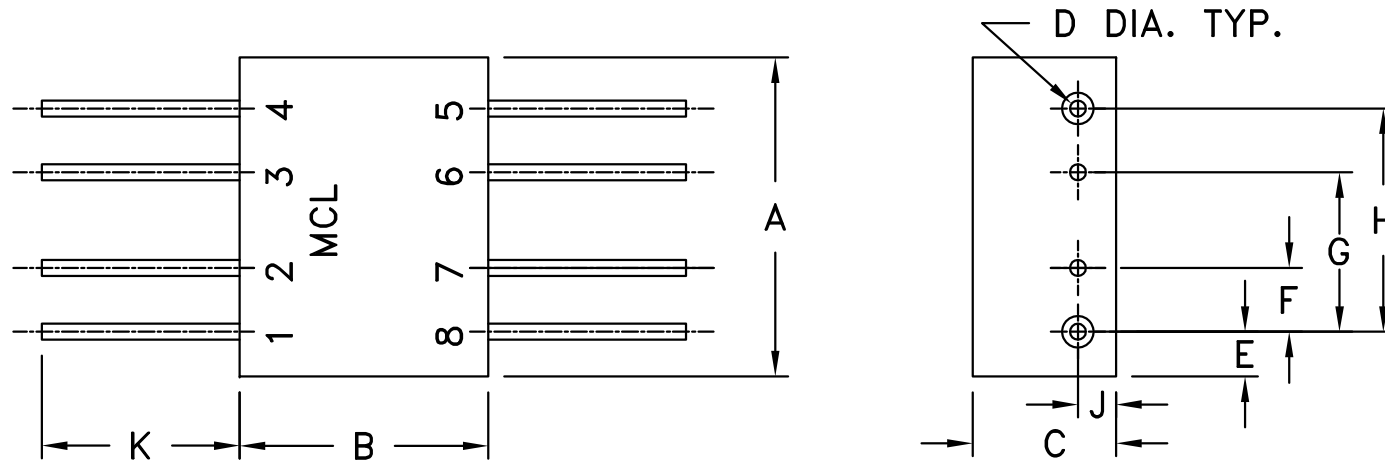
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Typical Performance Curves

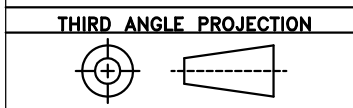


NOTE: PIN NUMBERS DO NOT APPEAR
ON UNIT. FOR REFERENCE ONLY.



CASE NO.	A	B	C	D	E	F	G	H	J	K	NOTES	WT. GRAMS
BB48	.50 (12.70)	.39 (9.91)	.225 (5.72)	.025 (0.63)	.07 (1.78)	.100 (2.54)	.250 (6.35)	.350 (8.89)	.06 (1.52)	.31 (7.87)	A1,E1	3.0

REFER TO GN-219 FOR TEXT OF NOTES.



OR	M42441	CHANGED PART NO.	PM
REV	ECN No.	DESCRIPTION	DATE DR AUTH
REVISIONS			

UNLESS OTHERWISE SPECIFIED		INITIALS	DATE
DIMENSIONS ARE IN INCHES		DRAWN	PM 10.16.95
TOLERANCES ON:		CHECKED	
2 PL. DECIMALS ± .03		APPROVED	
3 PL. DECIMALS ± .015			
ANGLES ±			
FRACTIONS ±			

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BSHEETA1.DWG REV:A DATE:01/12/94

Mini-Circuits		Mini-Circuit Laboratory 13 Neptune Avenue Brooklyn NY 11236	
CATALOG OUTLINE "BB"			
SIZE B	CODE IDENT 15542	DRAWING NO: 98-BB	REV: OR
FILE: 98-BB	SCALE: NONE	SHEET: 1 OF 1	