



**THE DATASHEET OF
SEPS-4-272+**



Power Splitter/Combiner

SEPS-4-272+

4 Way-0° 50Ω 690 to 2700 MHz



Generic photo used for illustration purposes only
CASE STYLE: JF1258

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5W max.
Internal Dissipation	0.5W max.
DC Current	1A (250 mA for each port)
Permanent damage may occur if any of these limits are exceeded.	

Pin Connections

SUM PORT	17
PORT 1	3
PORT 2	5
PORT 3	7
PORT 4	9
GROUND	all others

Features

- good isolation, 20 dB typ.
- good output matching, VSWR 1.1 typ.
- shielded case
- aqueous washable
- good coplanarity

Applications

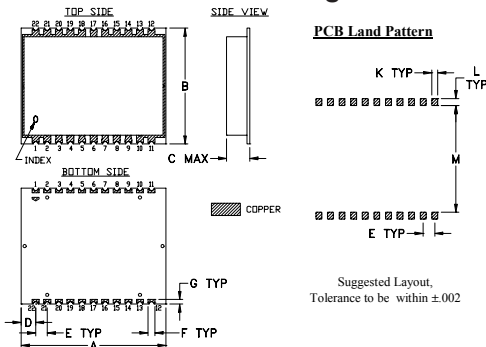
- cellular
- GPS
- PCS
- CATV
- ISM
- wireless communication system

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

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		690		2700	MHz
Insertion Loss Above 6.0 dB	800-2200 690-2700		1.0 1.5	1.6 2.6	dB
Isolation	690-2700	15	20		dB
Phase Unbalance	690-2700		4	7	Degree
Amplitude Unbalance	690-2700		0.4	0.8	dB
VSWR (Port S)	690-2700		1.5		:1
VSWR (Port 1-4)	690-2700		1.2		:1

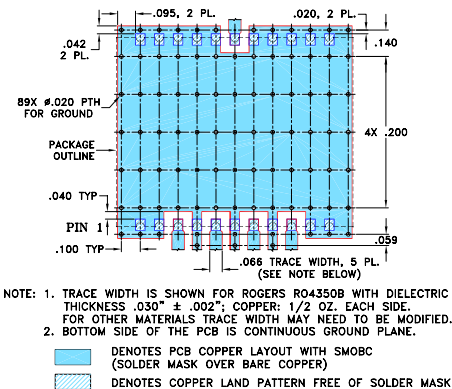
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
1.250	1.000	.200	.125	.100	.060	.040
31.75	25.40	5.08	3.18	2.54	1.52	1.02
H	J	K	L	M	wt	
--	--	.050	.060	.920	grams	
--	--	1.27	1.52	23.37	4.4	

Demo Board MCL P/N: TB-441+ Suggested PCB Layout (PL-273)



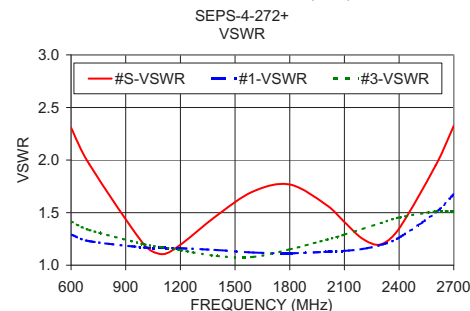
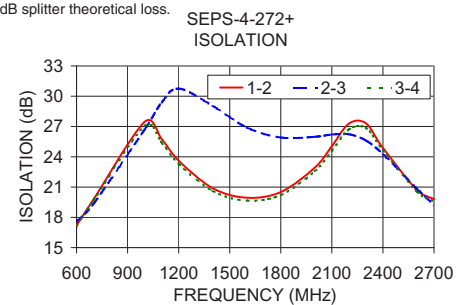
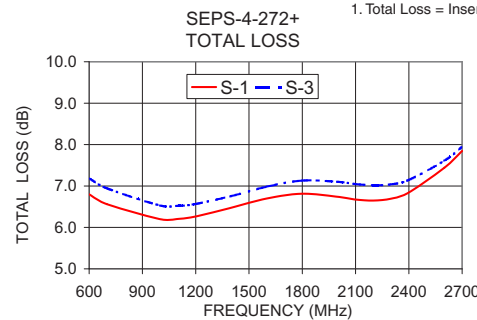
Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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/WCLStore/terms.jsp

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
600	6.80	7.23	7.19	6.77	0.46	17.21	17.55	17.13	0.63	2.31	1.29	1.41	1.42	1.30
700	6.56	6.99	6.94	6.54	0.45	19.79	19.35	19.70	0.49	1.96	1.23	1.33	1.33	1.25
1000	6.20	6.58	6.53	6.18	0.39	27.46	26.70	27.06	0.53	1.20	1.17	1.19	1.20	1.19
1100	6.21	6.56	6.52	6.18	0.38	25.76	29.38	25.39	0.67	1.10	1.16	1.16	1.17	1.18
1200	6.27	6.61	6.57	6.24	0.37	23.61	30.76	23.29	0.87	1.19	1.16	1.13	1.14	1.17
1400	6.48	6.79	6.76	6.44	0.35	20.89	29.04	20.61	1.34	1.47	1.14	1.08	1.09	1.15
1600	6.70	7.02	6.98	6.65	0.36	19.94	26.90	19.67	1.89	1.70	1.12	1.07	1.08	1.12
1800	6.81	7.17	7.13	6.77	0.40	20.51	25.91	20.21	2.36	1.77	1.11	1.14	1.15	1.12
2000	6.74	7.15	7.10	6.71	0.43	22.93	25.98	22.57	2.61	1.57	1.13	1.24	1.24	1.14
2100	6.67	7.09	7.05	6.65	0.44	25.05	26.20	24.59	2.67	1.41	1.14	1.29	1.29	1.15
2200	6.65	7.06	7.02	6.62	0.44	27.28	26.23	26.70	2.73	1.25	1.15	1.34	1.34	1.17
2300	6.70	7.09	7.04	6.67	0.42	27.31	25.62	26.86	2.79	1.20	1.19	1.40	1.40	1.20
2400	6.85	7.19	7.15	6.80	0.39	24.87	24.27	24.63	2.89	1.35	1.26	1.45	1.45	1.26
2600	7.44	7.67	7.61	7.37	0.30	20.70	20.83	20.54	3.55	1.95	1.50	1.50	1.51	1.48
2700	7.84	8.01	7.95	7.75	0.26	19.81	19.24	19.58	4.16	2.32	1.67	1.50	1.51	1.64

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



Electrical Schematic



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View SEPS-4-272+](#) on WIN SOURCE

 [Mini-Circuits](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management