AUMIWALKER

Power Divider/Combiner PD2067AY-LI

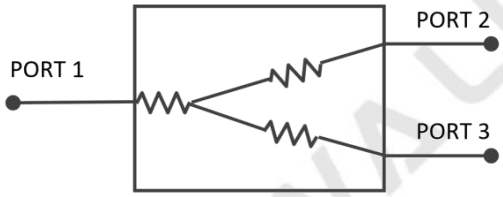
DC~67GHz 50Ω 1.85-f 1W 2-Way-0°

Product Features

- Broadband Design, DC~67GHz
- Miniature size and light weight
- Good Isolation, 7.5dB@DC~67GHz Typ.
- Excellent VSWR, 1.3:1@DC~67GHz Typ.
- Low Insertion Loss, 7.0dB@DC~67GHz Typ.
- Low amplitude (±0.3dB typ.) and phase imbalance (±3° typ.)

Product Overview

The PD2067AY-LI is a 2-way 0° resistance power divider&combiner that provides excellent VSWR and low insertion loss in the DC to 67GHz range for a wide range of RF device test measurement and system integration applications.



Product schematic

Typical Applications

- RF test and measurement
- Wireless communication
- System integration
- Radar systems

Specifications

Electrical Specifications:

Item	Condition		Min.	Typ.	Max.	Units
Frequency Range	-		DC	-	67	GHz
Nominal Impedance	-		-	50	-	Ω
Insertion Loss	DC-67GHz		6.0	7.0	8.0	dB
Isolation OUT-OUT	DC-67GHz		-	7.5	-	dB
IN VSWR	DC-67GHz		-	1.3	1.7	:1
OUT VSWR	DC-67GHz		-	1.3	1.7	:1
Amplitude Imbalance	DC-67GHz		-	±0.3	±0.6	dB
Phase Imbalance	DC-67GHz		-	±3	±6	deg
Power Handling	As Divider	DC-67GHz	-	-	1	W
	As Combiner	DC-67GHz	-	-	0.5	W

Mechanical Specifications:

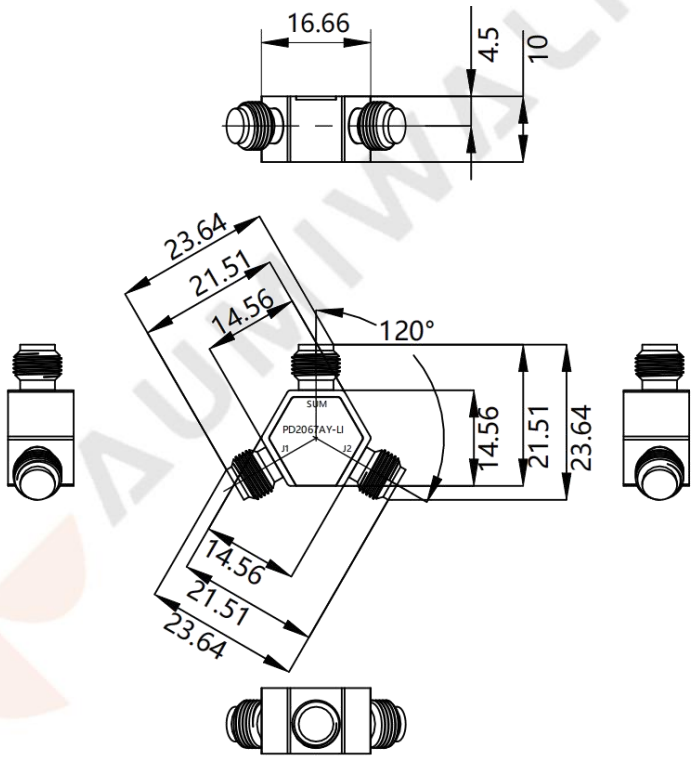
Item	Spec.	Units
Connectors	1.85-female	-

PD Type	Resistive	-
Physical Dimensions(L*W*H)	16.66 * 14.56 * 10 (RF interfaces not included)	mm
Net Weight	≈15	g
Material	Aluminium alloy&Copper	-
Surface Finish	Conductive oxidation&Gold-plated copper	-
Color	Aluminium color&Golden	-

* **Note: Package Dimensions & Gross Weight are subject to the actual delivery.**

Other Specifications:		
Item	**Spec.**	**Units**
Operating Temperature	-40~+85	℃
Storage Temperature	-40~+85	℃

Physical Dimensions (Unit:mm)



Interface Information

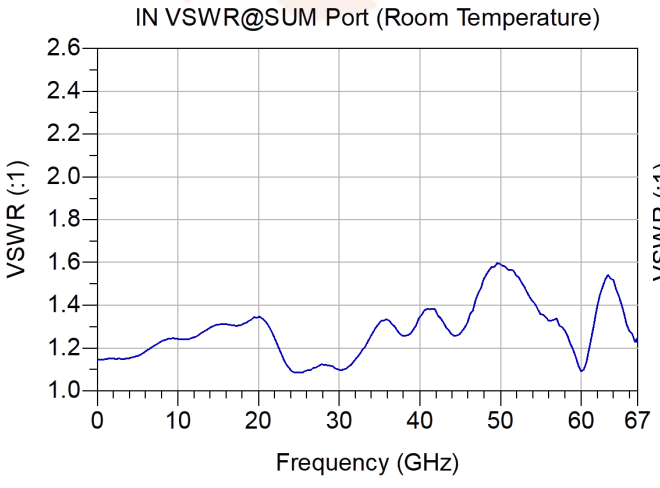
Interface definition:		
NO.	**Function**	**Description**
1	SUM	Electrical signal input port
2	J1	Electrical signal output port 1
3	J2	Electrical signal output port 2

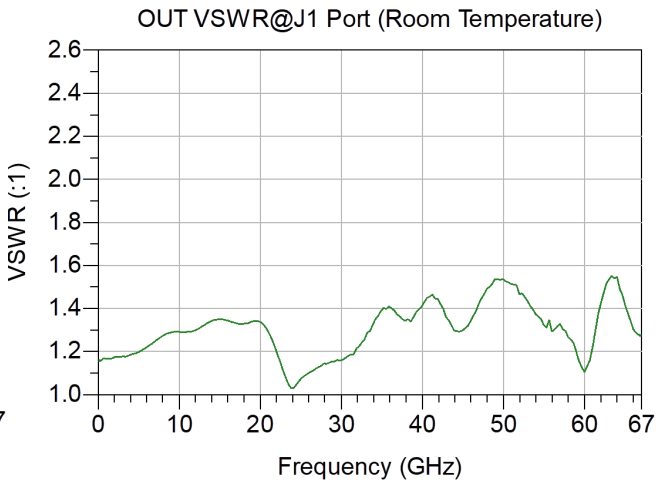
* **Note: Please refer to the physical dimensions of the corresponding ports.**

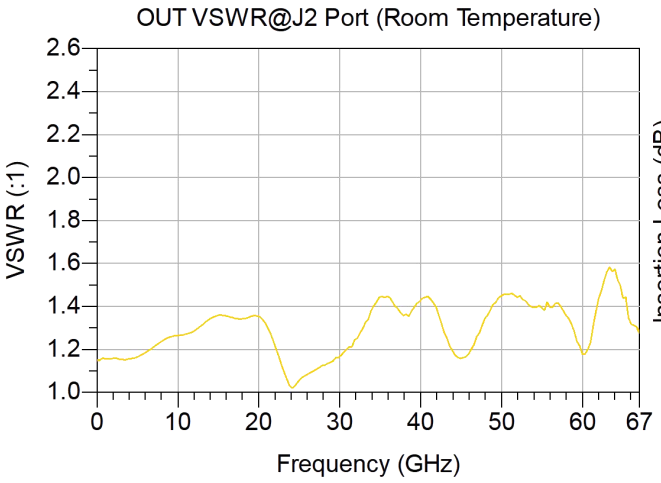
Typical Performance Data

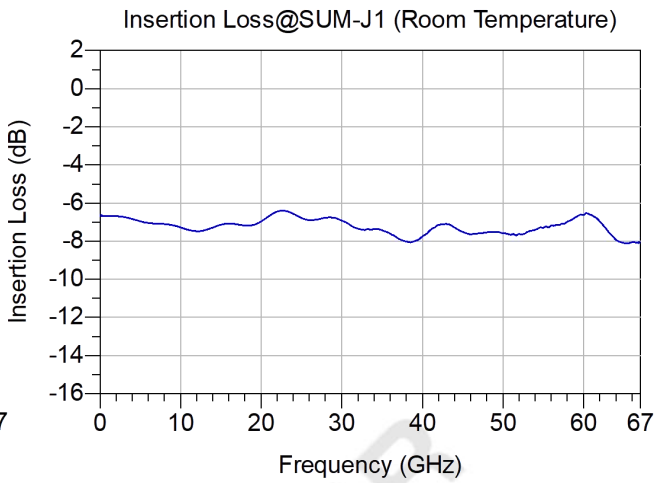
Freq. (GHz)	VSWR (:1)			Insertion Loss (dB)		Isolation (dB)	Amplitude Imbalance (dB)	Phase Imbalance (deg)
	SUM	J1	J2	SUM-J1	SUM-J2	J1-J2	-	-
0.01	1.15	1.16	1.15	-6.64	-6.57	-6.67	-0.071	0.011
1	1.15	1.17	1.16	-6.68	-6.62	-6.71	-0.065	0.075
4	1.15	1.19	1.16	-6.84	-6.79	-6.87	-0.046	0.102
7	1.21	1.25	1.21	-7.09	-7.05	-7.12	-0.038	-0.038
10	1.24	1.29	1.27	-7.28	-7.21	-7.29	-0.072	-0.216
14	1.30	1.34	1.34	-7.29	-7.17	-7.29	-0.119	0.163
17	1.31	1.33	1.34	-7.12	-7.02	-7.17	-0.106	0.350
20	1.35	1.34	1.35	-6.96	-6.88	-7.12	-0.080	0.494
24	1.10	1.03	1.02	-6.58	-6.51	-6.73	-0.071	0.516
27	1.11	1.12	1.11	-6.86	-6.82	-6.99	-0.042	0.579
30	1.10	1.16	1.17	-6.93	-6.88	-6.95	-0.047	0.204
34	1.26	1.34	1.39	-7.38	-7.22	-7.26	-0.165	0.905
37	1.29	1.37	1.40	-7.87	-7.73	-7.75	-0.137	1.497
40	1.35	1.42	1.43	-7.75	-7.83	-7.96	0.079	1.806
44	1.26	1.30	1.19	-7.30	-7.40	-7.53	0.098	0.296
47	1.43	1.43	1.27	-7.59	-7.53	-7.76	-0.063	-0.368
50	1.59	1.53	1.45	-7.59	-7.35	-7.50	-0.242	0.756
54	1.42	1.37	1.40	-7.40	-7.13	-7.24	-0.267	3.072
57	1.33	1.32	1.41	-7.15	-7.05	-7.10	-0.093	3.728
60	1.09	1.11	1.18	-6.63	-6.73	-6.84	0.109	3.368
64	1.52	1.54	1.57	-7.95	-7.90	-8.09	-0.046	3.281
67	1.24	1.27	1.28	-8.07	-7.92	-8.09	-0.151	3.362

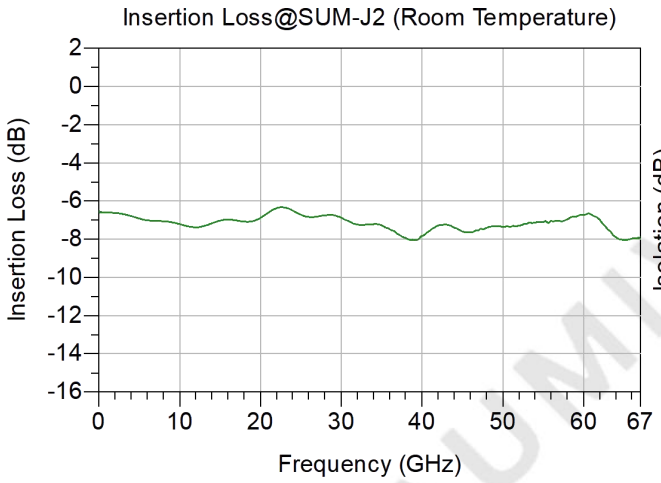
* **Note: The data in the table are typical performance data at room temperature.**

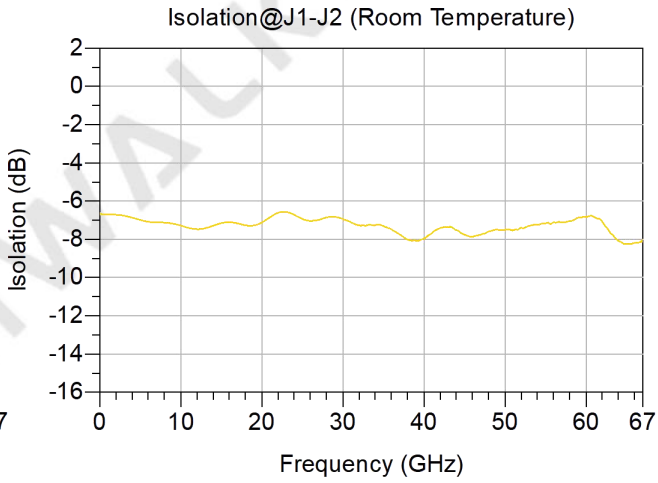


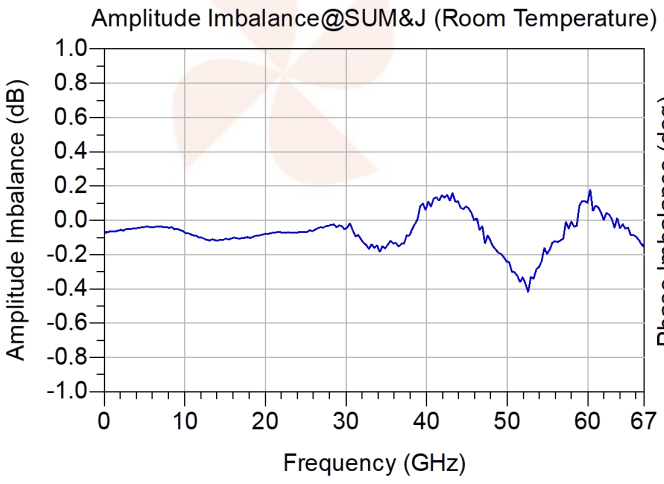


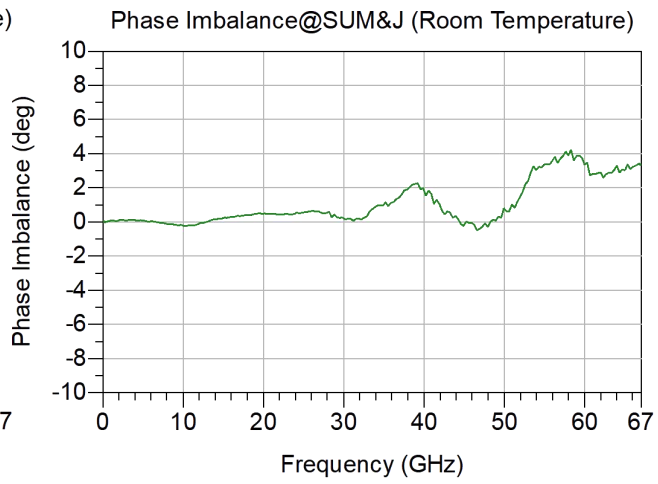












*** Note: The above is typical data and is not used as an acceptance reference.**