



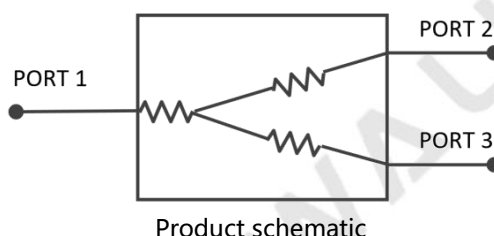
Product Features

- Broadband Design, DC~67GHz
- Miniature size and light weight
- High Isolation, 23dB@DC~67GHz Typ.
- Excellent VSWR, 1.3:1@DC~67GHz Typ.
- Low Insertion Loss, 11dB@DC~67GHz Typ.
- Low amplitude (± 0.1 dB typ.) and phase imbalance ($\pm 3^\circ$ typ.)



Product Overview

The PD2067AY-HI 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.



Typical Applications

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

Specifications

Electrical Specifications:

Item	Condition		Min.	Typ.	Max.	Units
Frequency Range	-		DC	-	67	GHz
Nominal Impedance	-		-	50	-	Ω
Insertion Loss	DC-67GHz		9.5	11	12	dB
Isolation OUT-OUT	DC-67GHz		-	23	-	dB
IN VSWR	DC-67GHz		-	1.4	1.7	-
OUT VSWR	DC-67GHz		-	1.3	1.8	-
Amplitude Imbalance	DC-67GHz		-	± 0.1	± 0.5	dB
Phase Imbalance	DC-67GHz		-	± 3	± 5	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	-

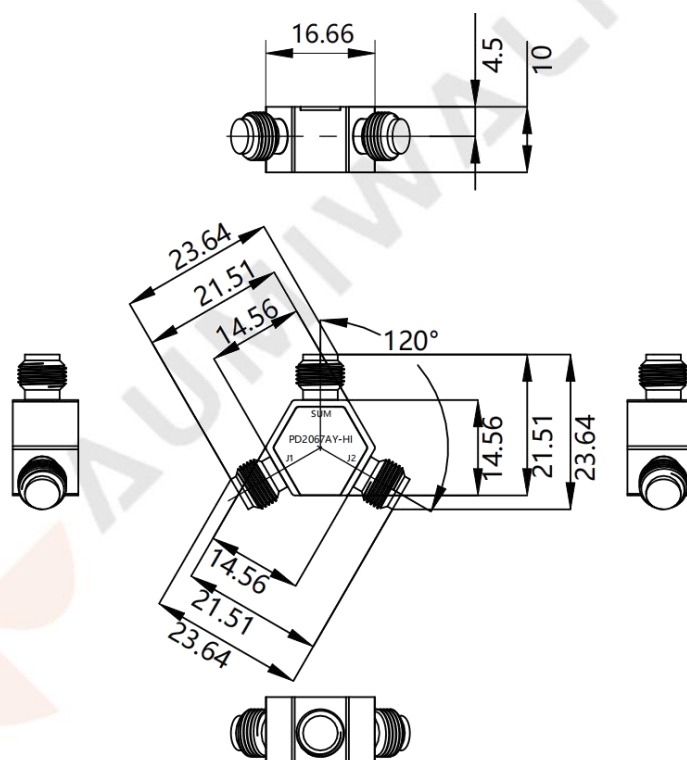
PD Type	Resistive	-
Physical Dimensions(L*W*H)	16.66 * 14.56 * 10 (RF interfaces not included)	mm
Net Weight	≈15	g
Material	Aluminium alloy&Copper	-
Surface Finish	Conductive oxidation&Gold-plated copper	-
Color	Aluminium color&Golden	-

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

Other Specifications:

Item	Spec.	Units
Operating Temperature	-40~+85	°C
Storage Temperature	-40~+85	°C

Physical Dimensions (Unit:mm)



Interface Information

Interface definition:

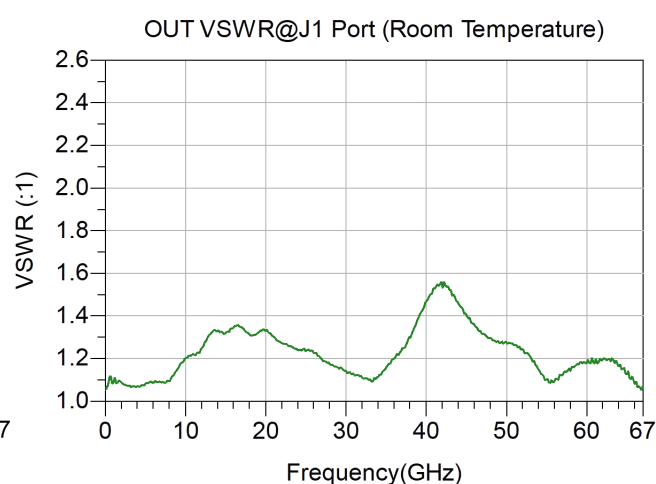
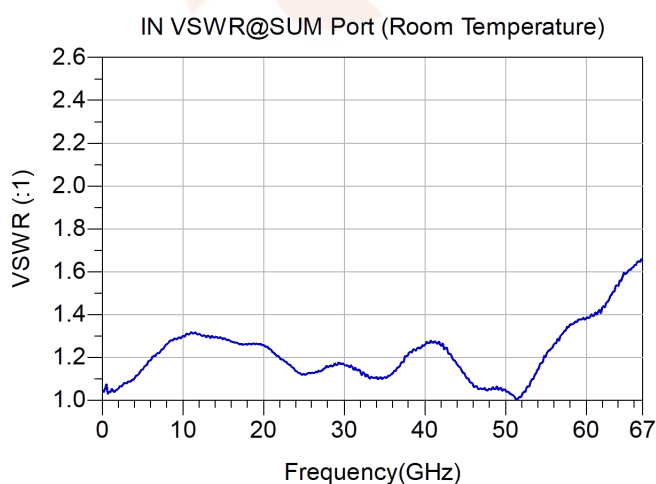
NO.	Function	Description
1	SUM	Electrical signal input port
2	J1	Electrical signal output port 1
3	J2	Electrical signal output port 2

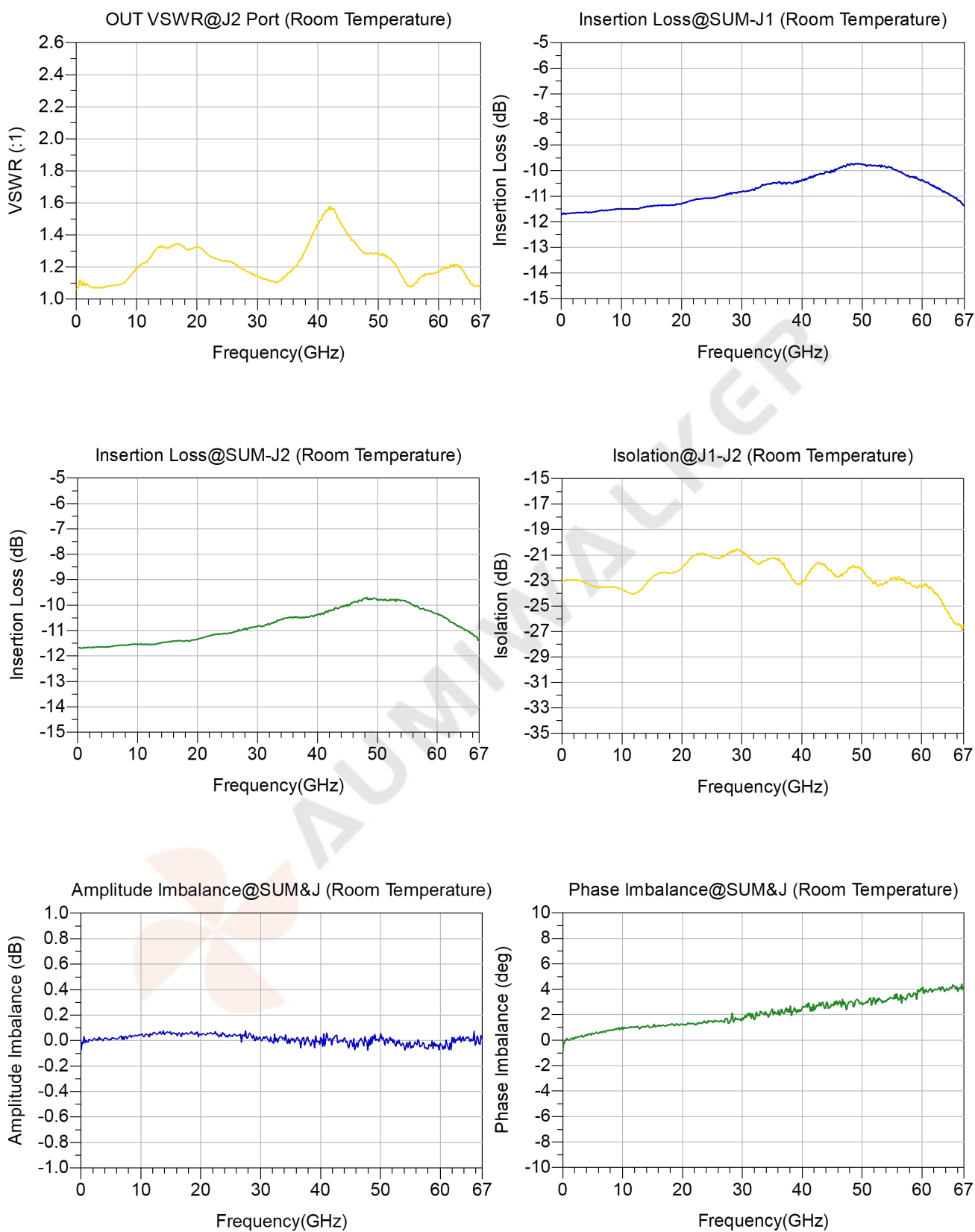
* Note: Please refer to the physical dimensions of the corresponding ports.

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	1.04	1.05	1.07	-11.75	-11.68	-23.15	-0.075	-0.936
1	1.04	1.09	1.09	-11.68	-11.67	-22.98	-0.009	-0.021
4	1.10	1.07	1.07	-11.63	-11.65	-23.20	0.020	0.360
7	1.22	1.09	1.09	-11.56	-11.58	-23.51	0.024	0.631
10	1.30	1.20	1.19	-11.50	-11.54	-23.71	0.046	0.898
14	1.30	1.33	1.33	-11.43	-11.48	-23.30	0.051	1.091
17	1.26	1.35	1.34	-11.35	-11.41	-22.36	0.055	1.122
20	1.26	1.33	1.32	-11.30	-11.35	-22.03	0.047	1.227
24	1.14	1.24	1.24	-11.08	-11.13	-20.95	0.046	1.395
27	1.13	1.20	1.20	-10.97	-11.01	-21.17	0.043	1.438
30	1.17	1.14	1.15	-10.83	-10.84	-20.67	0.009	1.749
34	1.11	1.11	1.12	-10.56	-10.56	-21.44	0.003	1.995
37	1.17	1.25	1.24	-10.47	-10.49	-21.64	0.018	2.097
40	1.26	1.47	1.46	-10.37	-10.38	-23.14	0.013	2.547
44	1.17	1.46	1.46	-10.05	-10.07	-21.89	0.020	2.824
47	1.05	1.32	1.31	-9.82	-9.81	-22.45	-0.008	2.912
50	1.05	1.27	1.28	-9.75	-9.79	-22.19	0.039	2.874
54	1.14	1.15	1.14	-9.88	-9.82	-23.15	-0.054	3.083
57	1.31	1.12	1.13	-10.14	-10.11	-22.92	-0.030	3.272
60	1.38	1.18	1.17	-10.36	-10.34	-23.53	-0.023	3.993
64	1.54	1.16	1.18	-10.87	-10.87	-25.24	-0.003	3.982
67	1.66	1.07	1.08	-11.37	-11.40	-26.53	0.028	4.037

* 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.