



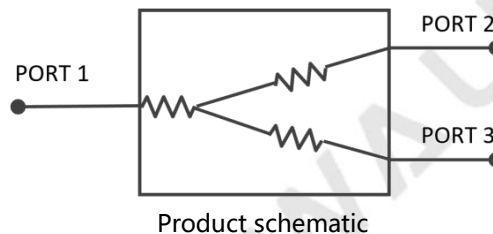
Product Features

- Broadband Design, DC~67GHz
- Miniature size and light weight
- Good Isolation, 13dB@DC~67GHz Typ.
- Excellent VSWR, 1.3:1@DC~67GHz Typ.
- Low Insertion Loss, 7.0dB@DC~67GHz Typ.
- Low amplitude (± 0.3 dB typ.) and phase imbalance ($\pm 3^\circ$ typ.)



Product Overview

The PD2067AY-MI 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		6.0	7.0	7.5	dB
Isolation OUT-OUT	DC-67GHz		-	13	-	dB
IN VSWR	DC-67GHz		-	1.3	2.0	:1
OUT VSWR	DC-67GHz		-	1.5	2.5	: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	-

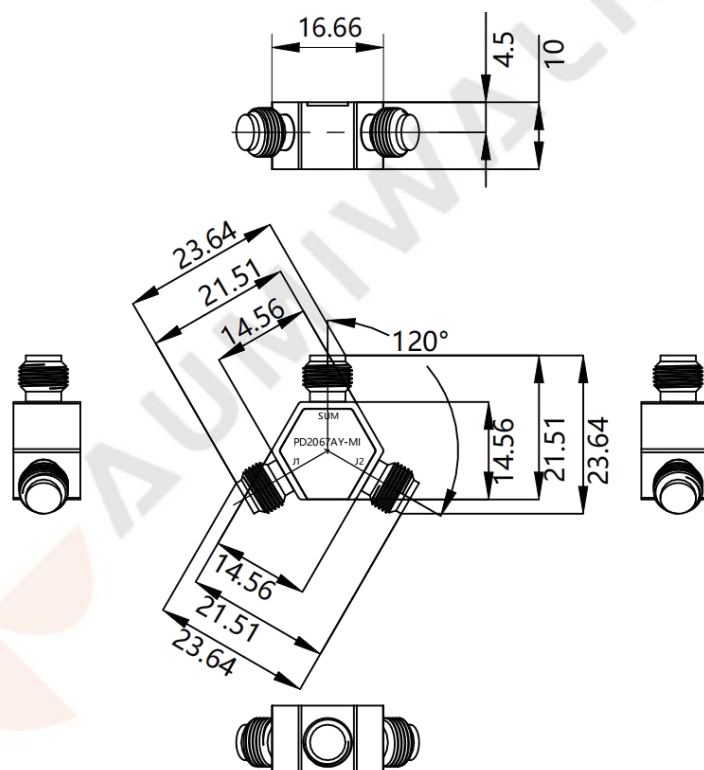
PD Type	Resistive	-
Physical Dimensions(L*W*H)	16.66 * 14.56 * 10 (RF interfaces not included)	mm
Net Weight	≈15	g
Material	Aluminium alloy&Copper	-
Surface Finish	Conductive oxidation&Gold-plated copper	-
Color	Aluminium color&Golden	-

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

Other Specifications:

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

Physical Dimensions (Unit:mm)



Interface Information

Interface definition:

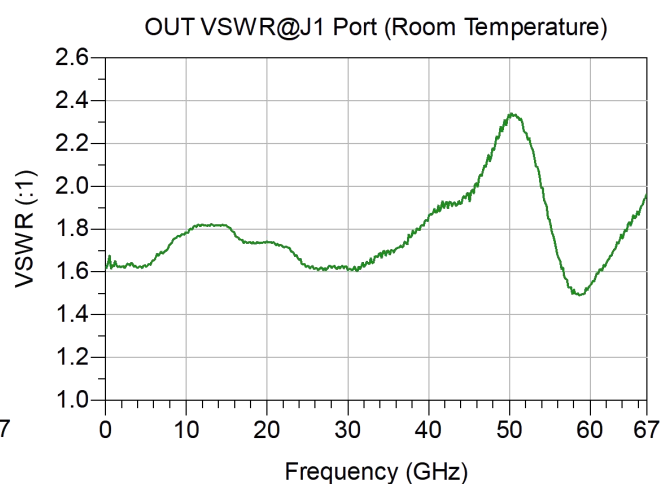
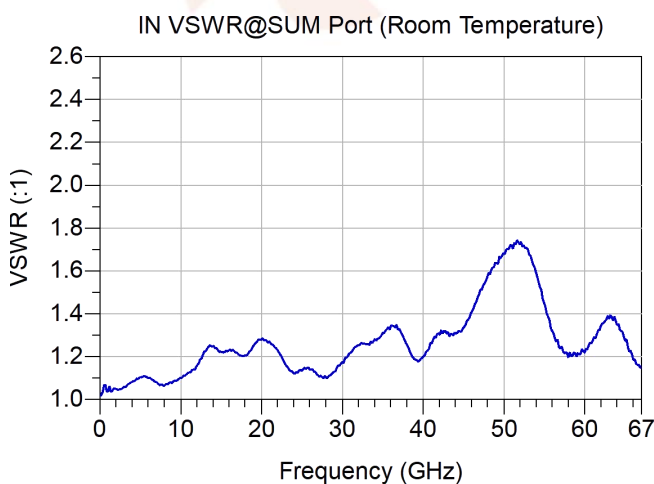
NO.	Function	Description
1	SUM	Electrical signal input port
2	J1	Electrical signal output port 1
3	J2	Electrical signal output port 2

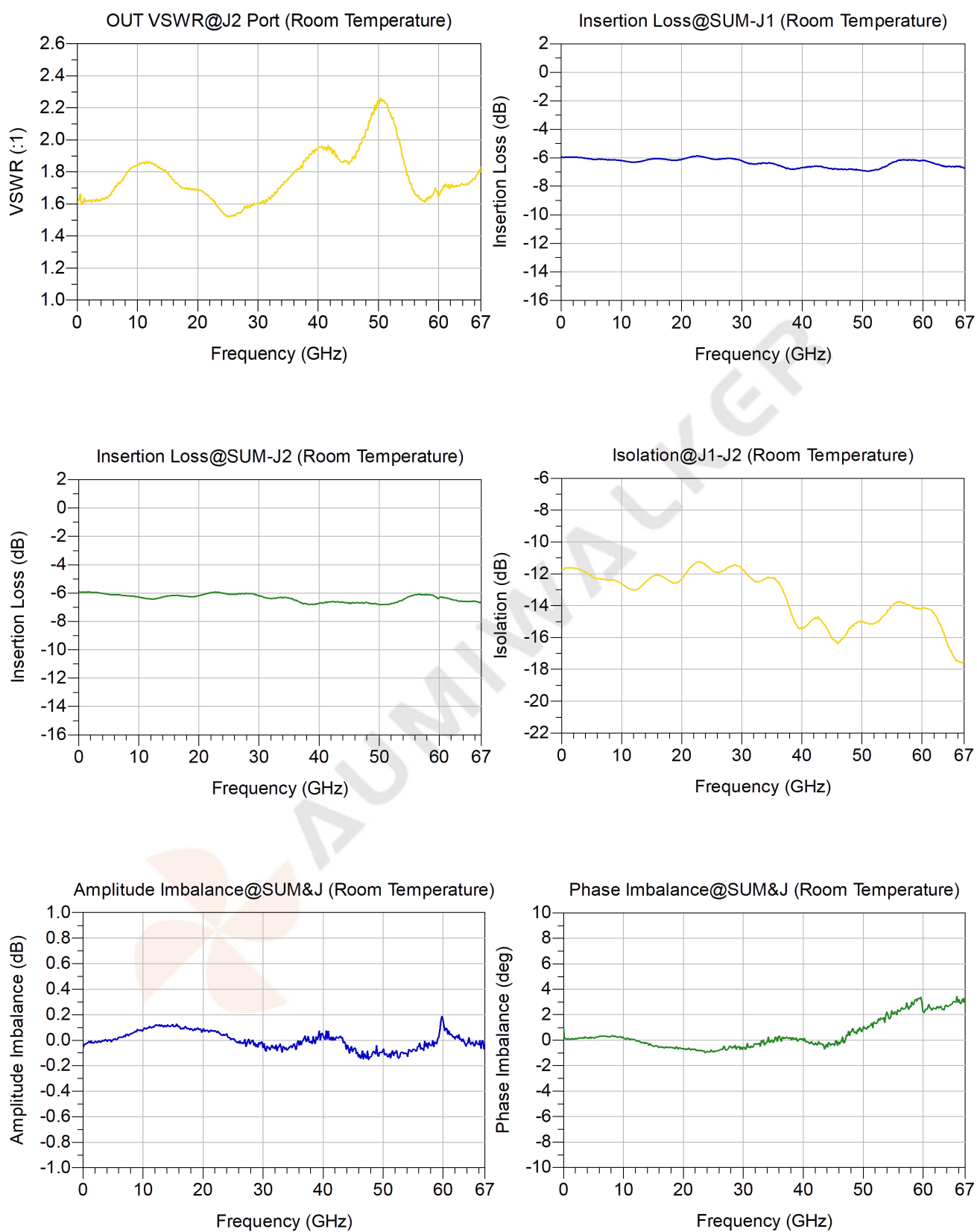
* Note: Please refer to the physical dimensions of the corresponding ports.

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	1.02	1.62	1.62	-5.97	-5.91	-11.77	-0.061	0.861
1	1.04	1.63	1.61	-5.95	-5.94	-11.63	-0.010	0.031
4	1.08	1.62	1.62	-6.03	-6.02	-11.91	-0.008	0.170
7	1.08	1.69	1.73	-6.11	-6.14	-12.33	0.029	0.310
10	1.10	1.78	1.84	-6.20	-6.28	-12.63	0.081	0.177
14	1.25	1.82	1.82	-6.18	-6.29	-12.51	0.114	-0.267
17	1.22	1.74	1.71	-6.09	-6.20	-12.22	0.104	-0.551
20	1.28	1.74	1.69	-6.12	-6.20	-12.32	0.082	-0.672
24	1.12	1.66	1.55	-5.98	-6.02	-11.46	0.044	-0.893
27	1.11	1.61	1.54	-6.07	-6.07	-11.80	-0.001	-0.730
30	1.18	1.61	1.60	-6.24	-6.18	-11.71	-0.059	-0.581
34	1.28	1.69	1.72	-6.40	-6.32	-12.31	-0.078	-0.162
37	1.33	1.74	1.83	-6.67	-6.70	-13.22	0.031	0.137
40	1.20	1.86	1.95	-6.69	-6.73	-15.46	0.038	-0.020
44	1.31	1.92	1.86	-6.70	-6.65	-15.35	-0.050	-0.483
47	1.50	2.09	1.97	-6.80	-6.68	-16.01	-0.118	-0.024
50	1.68	2.33	2.23	-6.89	-6.81	-14.99	-0.080	0.949
54	1.59	1.99	1.90	-6.58	-6.47	-14.52	-0.115	2.151
57	1.24	1.57	1.63	-6.15	-6.13	-13.82	-0.018	2.495
60	1.22	1.54	1.65	-6.17	-6.33	-14.21	0.156	2.245
64	1.35	1.76	1.72	-6.62	-6.59	-16.17	-0.025	2.700
67	1.15	1.96	1.83	-6.71	-6.68	-17.52	-0.032	3.281

* 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.