

Product Overview

The power divider series developed by Aumiwalker has a frequency range of DC to 110GHz. They are 2-way 0° resistance power divider&combiner that can distribute the power of a single RF signal to multiple outputs, or combine multiple signals into one. They feature excellent VSWR, low insertion loss for a wide range of RF device test measurement and system integration applications.

RF & mmWave Power Divider Series product pictures



Product Features

- 50-ohm load
- Up to 110GHz Total 8
- Low amplitude/phase imbalance
- Excellent VSWR,insertion loss,isolation
- Ultra-wideband and excellent power handling
- High RF performance, ultra-competitive price
- Connector types include SMA/2.92/1.85/1.0-f

Typical Applications

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

Product Series Parameters

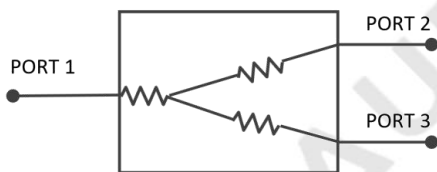
NO.	Model	Frequency (GHz)	VSWR (:1)	Insertion Loss (dB)	Isolation (dB)	Amplitude Imbalance (dB)	Phase Imbalance (deg)	Power Handling (W)	Interface type
1	PD2018A	DC~18GHz	≤1.3	≤6.4	6 Typ.	≤±0.5	≤±5	≤2	SMA-f
2	PD2040AY-LI	DC~40GHz	≤1.5	≤7.5	7 Typ.	≤±0.5	≤±5	≤1.0	2.92-f
3	PD2067AY-HI	DC~67GHz	≤1.8	≤12	23 Typ.	≤±0.5	≤±5	≤1.0	1.85-f
4	PD2067AY-MI	DC~67GHz	≤2.0	≤7.5	13 Typ.	≤±0.6	≤±6	≤1.0	1.85-f
5	PD2067AY-LI	DC~67GHz	≤1.7	≤8.0	7.5 Typ.	≤±0.6	≤±6	≤1.0	1.85-f
6	PD20110AY-HI	DC~110GHz	≤2.0	≤14.0	24 Typ.	≤±0.8	≤±10	≤0.5	1.0-f
7	PD20110AY-MI	DC~110GHz	≤2.0	≤10.0	12 Typ.	≤±0.8	≤±10	≤0.5	1.0-f
8	PD20110AY-LI	DC~110GHz	≤2.0	≤9.0	7.5 Typ.	≤±0.8	≤±10	≤0.5	1.0-f

Model: PD20110AY-HI

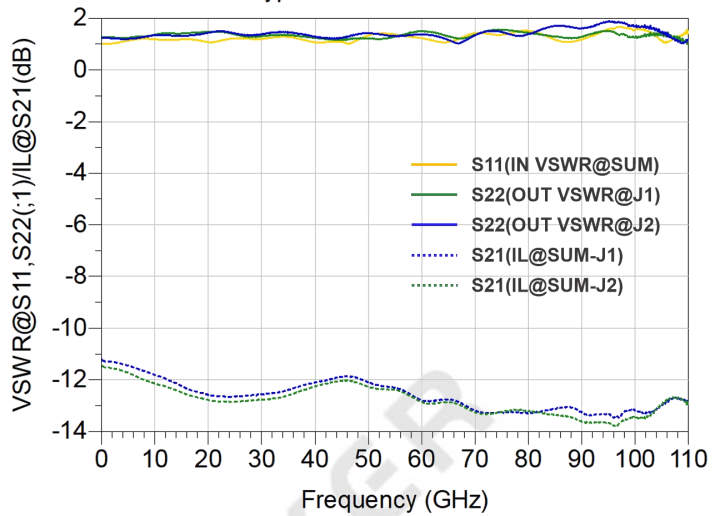
Specifications

Frequency(GHz)	DC~110GHz
Nominal Impedance(Ω)	50
VSWR(:1)	1.5 Typ.
Insertion Loss(dB)	12 Typ.
Isolation(dB)	24 Typ.
Amplitude Imbalance(dB)	$\leq \pm 0.8$
Phase Imbalance(deg)	≤ 10
Power Handling(W)	≤ 0.5
Connectors	1.0-female
Physical Dimensions(L*W*H:mm)	15.93*14.07*9.5
Net Weight(g)	≈ 12.5
Material	Aluminium&Copper
Operating Temperature($^{\circ}\text{C}$)	-40 ~ +85
Humidity Range(%rh)	<95%@40 $^{\circ}\text{C}$

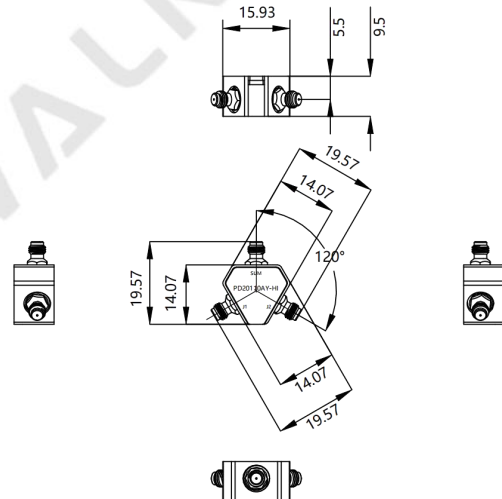
Product schematic



Typical Performance Data



Physical Dimensions (Unit:mm)



Typical Application Scenarios

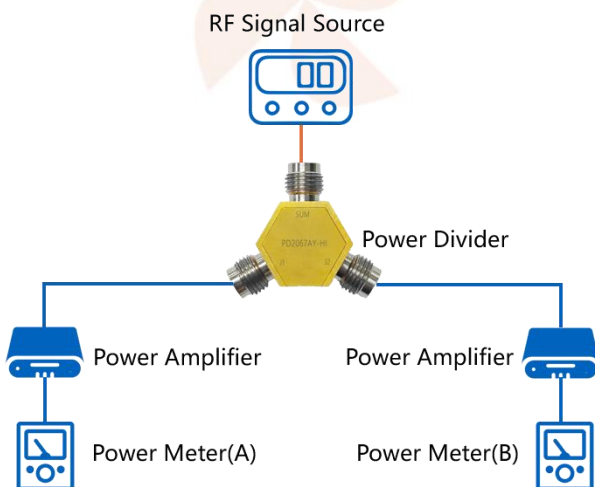


Fig.1-Applied in testing and measurement scenarios

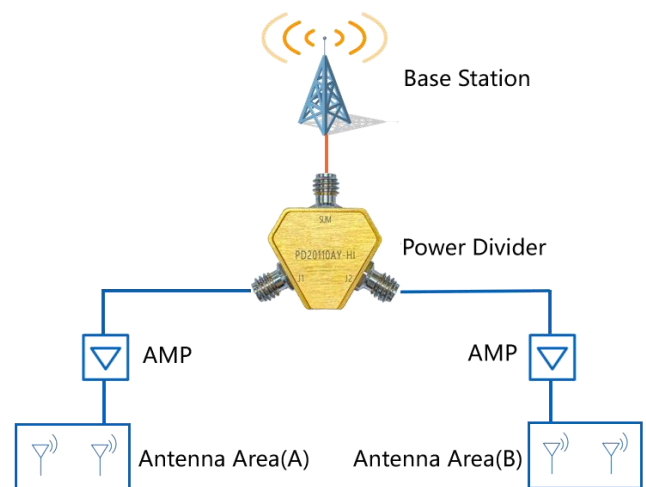


Fig.2-Applied in communication scenarios