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PRODUCT BROCHURE

EXCEPTIONAL QUALITY, PROFESSIONAL MANUFACTURING, GLOBAL SERVICE



GPS Active Power Divider / Combiner
2/3/4/6/8/10/12/16/32 Way Power Divider/Combiner

ABOUT US

RENHOTECH



20,000_{m²}
Factory Area

280⁺
Employees

ISO/IATF
Certificated

Founded in 2008, Renhotec is committed to being a global leading solution provider in the field of electrical electronic and industrial connectors.

Renhotec supplies high quality products and provide professional services globally in the industry sectors such as telecommunications, industrial automation, automotive instrument, railway, new energy marine and offshore machinery, etc. The company won the recognition from partners from the world.

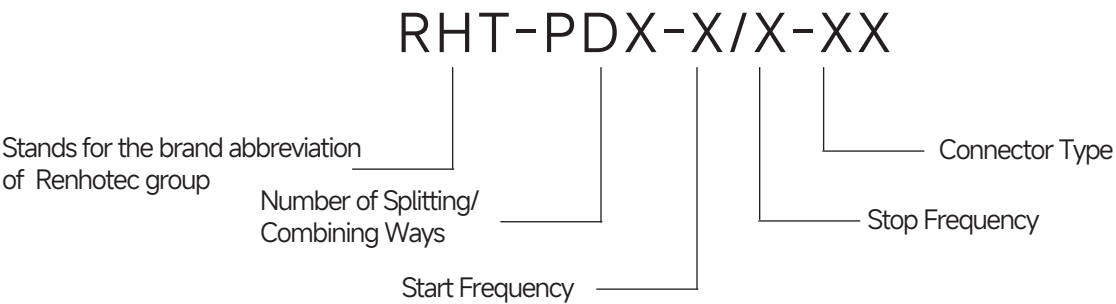
By providing global customers with professional and reliable connectivity solutions, Renhotec is making contributions to creating a smart and interconnected world.



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Power Divider / Combiner Product Catalog

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Splitting/Combining Number (Example)		Start Frequency - Stop Frequency (Example)		Connector Type	
Code	Translation	Code	Translation	Code	Translation
PD2	2 Way	0.005/1	5~1000MHz	S	SMA connector
PD3	3 Way	0.5/8	500~8000MHz	N	N connector
PD4	4 Way	0.6/6	600~6000MHz	K	2.92mm connector
PD6	6 Way	0.95/2.15	950~2150MHz	T	TNC connector
PD8	8 Way	2/8	2000~8000MHz	B	BNC connector
PD10	10 Way	DC/6	DC~6000MHz	D	DIN connector
PD12	12 Way			P	SMP connector
PD16	16 Way			4.3	4.3/10mm connector
PD32	32 Way			Q	2.4mm connector

Example of the model composition of a power divider/circuit breaker:

Example:
RHT-PD2-2/8-SE
RHT Stands for the brand abbreviation of Renhotec Group
PD2 Means 2 Way
2/8 Indicates 2000 to 8000 MHZ (2 to 8GHz).
S Indicates the SMA connector



2 Way SMA Type Microstrip Series

- feature
- Characteristic Impedance: 50Ω
 - Theoretical Loss: 3.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD2-0.1/2-SE	100~200	1.12	≤1.8	32	0.2	2	30	110x62x12
PD2-0.1/4-SE	100~4000	1.12	≤2.0	-	0.3	3	30	120x40x12
PD2-0.005/1-SE	0.005~1000	1.12	≤1.0	26	0.3	3	1	28x28x12.7
PD2-0.5/6-SE	500~6000	1.12	≤1.0	28	0.2	2	30	45x36x12
PD2-0.5/6-SI	500~6000	1.12	≤1.0	23	0.3	3	30	53.4x34.4x13
PD2-0.5/8-SE	500~8000	1.12	≤1.2	26	0.2	3	20	56x30x10
PD2-0.5/8-SEL	500~8000	1.12	≤1.5	25	0.2	3	30	72x28x12
PD2-0.5/8-SI	500~8000	1.15	≤1.2	23	0.3	5	35	53.4x34.6x13
PD2-0.5/18-SE	500~18000	1.18	≤1.0	24	0.3	4	30	157x26x10
PD2-0.6/6-SE	600~6000	1.11	≤0.9	27	0.2	2	30	45x36x12
PD2-0.7/2.7-SEL	700~2700	1.10	≤0.4	28	0.2	3	30	28x42x12
PD2-0.8/2.7-SI	800~2700	1.20	≤0.4	25	0.3	5	35	42.4x38.4x14.7
PD2-0.8/3-SI	800~3000	1.12	≤0.5	20	0.3	5	35	42.4x38.4x14.7
PD2-0.9/6.5-SI	900~6500	1.20	≤0.5	20	0.3	5	35	53.4x34.6x13
PD2-0.35/6-SE	350~6000	1.12	≤1.4	26	0.3	3	30	82x38x12
PD2-0.95/2.15-SI	950~2150	1.12	≤0.5	20	0.3	5	35	42.4x38.4x14.7
PD2-1.1/1.7-SI	1100~1700	1.12	≤0.5	20	0.3	5	35	42.4x38.4x14.7
PD2-1.4/6.5-SI	1400~6500	1.20	≤0.5	20	0.2	5	35	36.4x34.6x14.7
PD2-1/1.8-SE	1000~1800	1.12	≤1.2	26	0.3	3	20	99x24x10
PD2-2/6-SE	2000~6000	1.13	≤0.6	28	0.2	3	30	28x28x10
PD2-2/6-SI	2000~6000	1.20	≤0.5	20	0.3	5	35	36.4x34.6x14.7
PD2-2/8-SE	2000~8000	1.14	≤0.6	26	0.2	3	30	28x28x10
PD2-2/18-SE	2000~18000	1.14	≤1.0	25	0.3	4	20	47x24x10
PD2-2/500-SE	2~500	1.12	≤0.6	26	0.3	3	10	28x28x12.7
PD2-6/18-SE	6000~18000	1.15	≤0.8	24	0.3	3	20	30x24x10
PD2-6/26.5-SE	6000~26500	1.12	≤0.6	26	0.3	3	20	28x28x12.7
PD2-8/12-SE	8000~12000	1.15	≤0.5	26	0.2	3	20	28x28x10
PD2-0.1/0.5-SE	100~500	1.20	≤1.0	26	0.2	2	20	105x58x12
PD2-0.4/7.5-SE	400~7500	1.12	≤1.5	26	0.3	3	20	75x28x10
PD2-0.6/8-SE	600~8000	1.12	≤1.2	26	0.2	3	20	56x30x10
PD2-1.7/6-SE	1700~6000	1.14	≤0.6	28	0.2	2	30	34x36x12
PD2-4/8-SE	4000~8000	1.14	≤0.5	28	0.2	3	30	28x28x10
PD2-5.7/5.9-SE	5700~5900	1.14	≤0.4	28	0.2	2	30	28x28x10

2 Way SMA Type Resistor Series

- feature
- Characteristic Impedance: 50Ω
 - Not available



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD2-DC/3-SE	DC~3000	1.12	≤7.0	5.6	0.3	3	2	28x28x10
PD2-DC/3-SEY	DC~3000	1.20	≤6.0	6	0.5	-	2	25.4x22.2x16
PD2-DC/6-SE	DC~6000	1.12	≤7.02	5.6	0.3	3	2	28x28x10
PD2-DC/12-SE	DC~12000	1.10	≤3.5	18.0	0.3	3	0.2	19.5x25.4x9.65
PD2-DC/18-SEY	DC~18000	1.20	≤6	6	-	-	1	28x24.2x12
PD2-DC/4-SE	DC~4000	1.12	≤7.2	5.6	0.3	3	2	28x28x10
PD2-DC/8-SE	DC~8000	1.12	≤8.2	5.6	0.3	3	2	28x28x10
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2 Way N Type Microstrip Series

- feature
- Characteristic Impedance: 50Ω
 - Theoretical Loss: 3.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD2-0.1/0.4-NE	100~400	1.14	≤0.5	26	0.2	2	50	132x84x22
PD2-0.1/0.5-NE	100~500	1.14	≤0.5	26	0.2	2	50	132x84x22
PD2-0.5/6-NE	500~6000	1.16	≤1.2	26	0.2	3	30	56x50x20
PD2-0.95/2.15-NE	950~2150	1.11	≤1.11	28	0.2	2	30	46x56x20.5
PD2-1.1/1.7-NE	1100~1700	1.13	≤0.6	25	0.2	3	30	34x43x20
PD2-1.6/6-NE	1600~6000	1.13	≤0.6	25	0.2	3	30	34x43x20
PD2-1.6/6-NE-T	1600~6000	1.13	≤0.6	25	0.2	3	30	34x43x20
PD2-5/1000-NE	0.005~1	1.12	≤1.0	26	0.3	3	1	56x34x22
PD2-0.1/2.2-NE	100~2200	1.12	≤2.2	28	0.2	2	30	110x62x20
PD2-0.5/1-NE	500~1000	1.14	≤0.4	26	0.2	2	30	96x62x22
PD2-0.8/2.5-NE	800~2500	1.12	≤0.4	28	0.2	3	50	75x60x18.7
PD2-2/18-NE	2000~18000	1.12	≤1.5	24	0.3	4	20	44x52x20

2 Way TNC Type Microstrip Series

feature

- Characteristic Impedance: 50Ω
- Theoretical Loss: 3.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD2-1.1/1.7-TE	1100~1700	1.11	≤0.4	28	0.2	2	30	46x56x22
PD2-0.47/0.86-TE	470~860	1.12	≤0.4	26	0.2	2	30	48x46x20
PD2-0.8/2.5-TE	800~2500	1.12	≤0.6	26	0.2	3	20	50.8x50.8x21
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2 Way 2.92mm Type Microstrip Series

feature

- Characteristic Impedance: 50Ω
- Theoretical Loss: 3.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD2-1/26.5-KE	1000~26500	1.12	≤1.5	22	0.4	5	20	78x26x10
PD2-1/40-KE	1000~40000	1.12	≤1.8	22	0.4	5	20	78x26x10
PD2-17/31-KE	17000~31000	1.26	≤1.0	22	0.4	5	20	26x19x10
PD2-18/40-KE	18000~40000	1.26	≤1.0	22	0.4	5	20	26x19x10
PD2-2/40-KE	2000~40000	1.12	≤1.0	22	0.4	4	20	26x19x10
PD2-6/40-KE	6000~40000	1.26	≤1.3	22	0.4	5	20	26x19x10
PD2-18/24-KE	18000~24000	1.26	≤0.8	24	0.3	3	20	26x19x10
PD2-18/31-KE	18000~31000	1.26	≤0.8	22	0.4	4	20	26x19x10
PD2-20/40-KE	20000~40000	1.26	≤1.0	22	0.4	5	20	26x19x10
PD2-26.5/40-KE	26500~40000	1.26	≤1.0	24	0.4	4	20	26x19x10
PD2-26/28-KE	26000~28000	1.22	≤0.6	22	0.2	3	20	19x26x10
PD2-30.5~32.5-KE	30500~32500	1.22	≤0.7	24	0.3	4	20	19x26x10

3 Way SMA Type Microstrip Series

feature

- Characteristic Impedance: 50Ω
- Theoretical Loss: 4.8dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD3-0.5/6-SE	500~6000	1.18	≤2.6	25	0.8	8	20	130x50x12
PD3-2/6-SE	2000~6000	1.14	≤1.0	26	0.5	5	20	66.5x37.5x10
PD3-2/8-SE	2000~8000	1.14	≤1.0	26	0.5	5	20	66.5x37.5x10
PD3-2/18-SE	2000~18000	1.24	≤1.5	25	0.6	6	20	70x39x10
PD3-5/30-SE	5~30	1.13	≤0.8	30	0.3	3	1	60x48x12
PD3-4/30-SE	4~30	1.13	≤0.8	30	0.3	3	1	60x48x12
PD3-0.005/0.3-SE	5~300	1.13	≤0.8	30	0.2	2	1	60x48x12
PD3-0.01/1-SE	10~1000	1.19	≤1.7	30	0.4	6	1	60x48x12
PD3-0.38/6-SE	380~6000	1.18	≤2.8	26	0.9	8	20	130x50x12
PD3-0.4/0.6-SE	400~600	1.12	≤0.3	26	0.3	3	50	102x103x14
PD3-0.4/6-SE	400~6000	1.18	≤2.8	28	0.8	8	20	130x50x12
PD3-0.5/8-SE	500~8000	1.19	≤2.2	26	1.0	10	20	160x52x12
PD3-0.698~3.8-SE	698~3800	1.15	≤1.2	26	0.6	6	50	128x70x14
PD3-1/8-SE	1000~8000	1.14	≤1.5	25	0.8	8	20	95x44x10
PD3-1.1/1.7-SE	1100~1700	1.12	≤0.5	26	0.4	4	30	72x72x20
PD3-2/9-SE	2000~9000	1.16	≤2.2	24	0.6	6	30	66.5x37.5x10
PD3-6/18-SE	6000~18000	1.18	≤1.2	24	0.6	6	20	38x51x10
PD3-7.5/9-SE	7500~9000	1.15	≤0.8	26	0.5	5	20	51x38x10
PD3-8/12-SE	8000~12000	1.15	≤1.0	26	0.5	5	20	51x38x10
PD3-20/21-SE	20000~21000	1.18	≤0.8	25	1.2	4	20	38x51x10
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3 Way SMA Type Resistor Series

feature

- Characteristic Impedance: 50Ω
- Not available



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD3-DC/3-SE	DC~3000	1.14	≤9.9	8.9	0.3	3	2	34x45x12.5
PD3-DC/3-SEY	DC~3000	1.15	≤10.0	9.0	0.5	10	2	25.4x29.3x16
PD3-DC/6-SE	DC~6000	1.14	≤10.8	8.9	0.4	4	2	34x45x12.5
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3 Way N Type Microstrip Series

feature

- Characteristic Impedance: 50Ω
- Theoretical Loss: 4.8dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD3-0.5/6-NE	500~6000	1.18	≤2.8	25	0.8	8	20	130x74x20
PD3-2.3/2.6-200NI	2300~2600	1.10	≤0.4	26	0.5	5	200	160x160x60
PD3-0.6/6-NE	600~6000	1.18	≤2.8	25	0.8	8	20	130x74x20
PD3-0.8/2.5-NE	800~2500	1.12	≤0.6	26	0.3	4	50	81x45x22
PD3-1.8/6-NE	1800~6000	1.12	≤1.0	26	0.8	6	30	76x70x20
PD3-2/6-NE	2000~6000	1.16	≤0.8	24	0.5	5	30	76x70x20
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4 Way SMA Type Microstrip Series

feature

- Characteristic Impedance: 50Ω
- Theoretical Loss: 6.0dB
(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD4-0.4/6-SE	400~6000	1.12	≤1.8	28	0.3	4	30	100x62x12
PD4-0.5/6-SE	500~6000	1.12	≤1.8	29	0.3	4	30	100x62x12
PD4-0.5/6-SI	500~6000	1.25	≤1.0	20	0.3	5	35	91.2x66x14.7
PD4-0.5/8-SE	500~8000	1.12	≤2.0	26	0.3	4	20	86x56x10
PD4-0.5/8-SE3	500~8000	1.15	≤1.7	25	0.4	4	20	100x62x12
PD4-0.5/10-SE	500~10000	1.15	≤3.0	26	0.3	4	20	128x54x10
PD4-0.5/18-SE	500~18000	1.20	≤2.5	24	0.8	8	30	163x68x10
PD4-0.5/26.5-SEL	500~26500	1.28	≤5.2	26	0.4	6	20	158.5x56.5x12.7
PD4-0.6/6-SE	600~6000	1.11	≤1.7	28	0.3	4	30	100x62x12
PD4-0.7/2.7-SE	700~2700	1.14	≤0.6	26	0.3	4	30	52x64x12
PD4-0.8/3-SI	800~3000	1.15	≤0.7	20	0.3	5	35	66.4x75x14.7
PD4-0.95/2.15-SI	950~2150	1.15	≤0.7	20	0.3	5	35	66.4x75x14.7
PD4-1.1/1.7-SI	1100~1700	1.15	≤0.5	20	0.3	5	35	66.4x75x14.7
PD4-2/6-SE	2000~6000	1.15	≤0.8	28	0.3	4	30	50x56x10
PD4-2/8-SE	2000~8000	1.14	≤1.0	25	0.3	4	30	50x56x10
PD4-2/12-SE	2000~12000	1.16	≤1.6	24	0.4	5	20	60x69x10
PD4-2/18-SE	2000~18000	1.25	≤2.0	22	0.4	6	20	60x69x10
PD4-5/1000-SE	0.005~1	1.12	≤2.0	26	0.8	6	0.5	70x40x12
PD4-6/18-SE	6000~18000	1.15	≤1.0	26	0.3	5	20	45x50.5x10
PD4-8/12-SE	8000~12000	1.15	≤1.0	24	0.4	5	20	60x54x10
PD4-0.1/0.52-SE	100~520	1.12	≤0.6	28	0.2	3	20	123x186x10
PD4-0.1/6-SE	100~6000	1.12	≤1.0	26	0.3	3	20	70.5x54x10
PD4-0.38/8-SE	380~8000	1.12	≤2.6	26	0.3	4	30	130x58x10
PD4-0.5/2-SE	500~2000	1.12	≤1.0	26	0.3	3	30	76.2x50.8x9.7
PD4-0.6/18-SE	600~18000	1.20	≤2.5	24	0.8	8	30	163x68x10
PD4-0.7/4-SE	700~4000	1.10	≤1.0	28	0.3	3	30	66x66x12
PD4-0.8/2.7-SE	800~2700	1.12	≤0.8	20	0.2	3	30	52x64x12
PD4-0.9/4-SE	900~4000	1.12	≤0.6	26	0.3	3	30	83x66x10
PD4-1/8-SE	1000~8000	1.12	≤1.4	26	0.3	3	20	70.5x56x10
PD4-2/4-SE	2000~4000	1.12	≤0.6	26	0.3	3	30	50x56x10
PD4-4/12-SE	4000~12000	1.15	≤1.2	24	0.2	4	20	60x54x10
PD4-8/8.5-SE	8000~8500	1.14	≤0.6	24	0.3	3	30	36x64x10
PD4-12/18-SE	12000~18000	1.12	≤1.0	22	0.3	5	20	42x52x10

4 Way SMA Type Resistor Series

feature

- Characteristic Impedance: 50Ω
- Not available



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD4-DC/3-SE	DC~3000	1.11	≤14.0	5.6	0.4	4	2	40x64x12.5
PD4-DC/3-SEY	DC~3000	1.15	≤13.0	12.0	0.6	12	2	25.4x29.3x16
PD4-DC/6-SE	DC~6000	1.11	≤14.0	11.6	0.4	4	2	40x64x12.5
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4 Way N Type Microstrip Series

feature

- Characteristic Impedance: 50Ω
- Theoretical Loss: 6.0dB
(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD4-0.5/6-NE	500~6000	1.16	≤2.0	28	0.3	4	30	100x92x20
PD4-0.7/3-NE	700~3000	-	≤1.0	-	0.3	4	30	101.1x75.1x19.1
PD4-0.95/2.15-NE	950~2150	-	≤1.0	-	0.3	4	30	101.1x75.1x19.1
PD4-1.1/1.7-NE	1100~1700	-	≤1.0	-	0.3	4	30	101.1x75.1x19.1
PD4-0.1/0.5-NE	100~500	1.06	≤1.0	27	0.2	3	50	132x84x22
PD4-0.35/0.5-NE	350~500	1.12	≤0.4	26	0.2	2	250	210x140x24
PD4-0.8/2.5-NE	800~2500	1.10	≤0.8	26	0.3	3	30	75.5x101.1x19.1
PD4-0.95/1.95-NE	950~1950	1.12	≤0.6	26	0.3	3	30	102x72x20
PD4-2/4-NE	2000~4000	1.12	≤0.8	26	0.3	3	30	49x97x20
PD4-2/8-NE	2000~8000	1.16	≤1.2	26	0.3	4	30	97x49x20
PD4-2/18-NE	2000~18000	1.12	≤2.2	24	0.4	6	20	102x60xx20
PD4-3.4/4.2-NE	3400~4200	1.20	≤1.5	25	0.3	3	30	106x46x22

4 Way N Type Resistor Series

feature

- Characteristic Impedance: 50Ω
- Not available



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD4-DC/6-NE	DC~6000	1.10	≤15.0	6.0	0.5	5	2	50x100x20
PD4-DC/3-NE	DC~3000	1.10	≤14.0	11.5	0.4	4	2	50x100x20
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4 Way 2.92mm Type Microstrip Series

feature

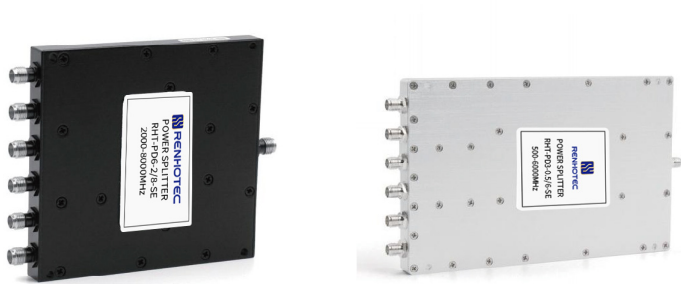
- Characteristic Impedance: 50Ω
- Theoretical Loss: 6.0dB
(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD4-17/31-KE	17000~31000	1.26	≤1.6	22	0.4	6	20	52x35x10
PD4-18/40-KE	18000~40000	1.26	≤1.6	22	0.4	6	20	52x35x10
PD4-1/40-KE	1000~40000	1.26	≤3.5	22	0.5	8	20	154x52x10
PD4-2/40-KE	2000~40000	1.26	≤3.0	20	0.5	10	20	52x46x10
PD4-18/31-KE	18000~31000	1.26	≤1.0	22	0.4	6	20	52x35x10
PD4-26/28-KE	26000~28000	1.26	≤1.0	24	0.2	5	20	38.1x52.3x10
PD4-27/31-KE	27000~31000	1.26	≤1.0	22	0.4	5	20	52.3x38.1x10
PD4-30.5/32.5-KE	30500~32500	1.24	≤1.4	24	0.4	4	20	38.1x52.3x10
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6 Way SMA Type Microstrip Series

- feature
- Characteristic Impedance: 50Ω
 - Theoretical Loss: 7.8dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD6-0.5/6-SE	500~6000	1.13	≤3.0	26	0.8	8	20	150x94x12
PD6-0.5/8-SE	500~8000	1.19	≤3.5	25	1.0	10	20	220x94x12
PD6-0.6/6-SE	600~6000	1.13	≤2.9	26	0.8	8	20	150x94x12
PD6-2/6-SE	2000~6000	1.14	≤1.2	25	0.5	5	30	88x83x10
PD6-2/8-SE	2000~8000	1.14	≤1.2	25	0.5	5	30	88x83x10
PD6-2/18-SE	2000~18000	1.30	≤2.2	18	0.5	5	20	98x82x10
PD6-0.9/8-SE	900~8000	1.15	≤2.0	25	0.8	8	20	130x80x10
PD6-1/8-SE	1000~8000	1.15	≤2.0	25	0.8	6	20	130x80x10
PD6-17/23-SE	17000~23000	1.18	≤3.0	22	0.8	8	20	60x80x10

8 Way 2.92mm Type Microstrip Series

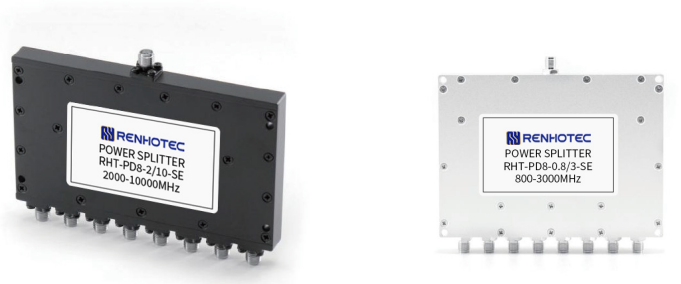
- feature
- Characteristic Impedance: 50Ω
 - Theoretical Loss: 9.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD8-17/31-KE	17000~31000	1.26	≤1.6	24	0.5	6	20	104x40x10
PD8-18/40-KE	18000~40000	1.26	≤3.2	22	0.5	8	20	104x40x10
PD8-25.5/26.5-KE	25500~26500	1.26	≤1.6	24	0.5	8	20	104x40x10
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8 Way SMA Type Microstrip Series

- feature
- Characteristic Impedance: 50Ω
 - Theoretical Loss: 9.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD8-0.1/0.4-SE	100~400	1.13	≤2.0	26	0.3	3	30	190x190x12
PD8-0.1/0.7-SE	100~700	1.13	≤2.0	26	0.3	3	30	190x190x12
PD8-0.005/1-SE	0.005~1	1.20	≤2.5	26	0.5	10	1	120x56x12
PD8-0.5/6-SE	500~6000	1.13	≤2.8	26	0.4	5	30	113x115x12
PD8-0.5/8-SE	500~8000	1.12	≤3.0	26	0.4	5	20	114.5x114x10
PD8-0.6/6-SE	600~6000	1.12	≤2.7	26	0.4	5	30	113x115x12
PD8-0.08~4-SE	80~4000	1.15	≤6.6	-	0.3	8	30	332x164x12
PD8-0.8/2.7-SE	800~2700	1.15	≤0.8	26	0.4	4	30	112x70x12
PD8-0.8/3-SE	800~3000	1.11	≤1.0	26	0.3	4	30	116x86x14
PD8-0.95/2.15-SE	950~2150	1.11	≤1.0	26	0.3	4	30	116x86x14
PD8-1.1/1.7-SE	1100~1700	1.11	≤1.0	26	0.3	4	30	116x86x14
PD8-2/6-SE	2000~6000	1.14	≤1.5	25	0.4	5	30	63x108x10
PD8-2/8-SE	2000~8000	1.14	≤1.5	25	0.4	5	30	63x108x10
PD8-2/10-SE	2000~10000	1.15	≤2.0	24	0.4	5	20	65x110x10
PD8-2/18-SE	2000~18000	1.16	≤3.0	24	0.5	10	20	148.5x95x10
PD8-6/18-SE	6000~18000	1.18	≤2.8	22	0.4	5	20	106x78x10
PD8-8/12-SE	8000~12000	1.18	≤1.4	24	0.4	5	20	57.5x122.5x10
PD8-0.05/5-SE	50~5000	1.18	≤1.4	-	0.5	5	2	120x60x12
PD8-0.1/2-SE	100~2000	1.12	≤4.0	25	0.4	4	30	224x220x10
PD8-0.2/1-SE	200~1000	1.12	≤1.0	26	0.3	4	30	172x138x10
PD8-0.3/6-SE	300~6000	1.15	≤4.0	25	0.3	5	30	176x120x12
PD8-0.4/0.47-SE	400~470	1.12	≤0.6	26	0.2	3	100	248x204x16
PD8-0.4/2-SE	400~2000	1.12	≤4.2	32	0.3	3	30	120x120x10
PD8-0.5/10-SE	500~10000	1.12	≤1.0	26	0.3	3	30	92x120x12
PD8-0.7/5-SE	700~5000	1.12	≤3.0	26	0.4	5	30	165x144x16
PD8-0.8/2.5-SE	800~2500	1.15	≤0.8	26	0.4	4	30	112x70x12
PD8-1/2-SE	1000~2000	1.12	≤0.8	25	0.3	4	30	68x114x12
PD8-1/18-SE	1000~18000	1.24	≤4.0	24	0.5	10	20	100x166x10
PD8-2/18-SE	2000~18000	1.16	≤3.0	24	0.5	10	20	148.5x95x10
PD8-3.9/5.9-SE	3900~5900	1.14	≤1.0	25	0.4	5	30	63x108x10
PD8-4/12-SE	4000~12000	1.20	≤1.5	24	0.2	4	20	70x112x10
PD8-9/11-SE	9000~11000	1.18	≤1.0	26	0.4	5	20	57.5x122.5x10
PD8-15/18-SE	15000~18000	1.15	≤2.0	24	0.4	6	20	112x70x10

8 Way SMA Type Resistor Series

feature

- Characteristic Impedance: 50Ω
- Not available

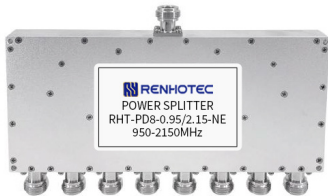


Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD8-DC/3-SE	DC~3000	1.16	≤19.5	5.9	0.4	4	2	120x60x12
PD8-DC/3-SEY	DC~3000	1.30	≤18.0	18.0	1.0	-	2	43.2x45.5x16
PD8-DC/6-SE	DC~6000	1.18	≤22.0	6.0	0.8	5	2	120x60x12
PD8-DC/6-SEY	DC~6000	1.50	≤24.0	18.0	1.5	-	2	43.2x45.5x16
PD8-DC/2-SE	DC~2000	1.08	≤18.5	17.5	0.3	3	2	120x60x12
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8 Way N Type Microstrip Series

feature

- Characteristic Impedance: 50Ω
- Theoretical Loss: 9.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD8-0.05/0.95-NE	2000~8000	1.18	≤3.6	26	0.4	5	1	58x200x22
PD8-0.4/0.47-NE	400~470	1.12	≤0.8	26	0.2	3	200	248x204x22
PD8-0.5/1-NE	500~1000	1.14	≤0.8	26	0.3	3	30	120x206x20
PD8-0.6/6-NE	600~6000	1.12	≤2.5	26	0.3	5	30	200x96x20
PD8-0.69/2.7-NE	690~2700	1.14	≤1.8	26	0.3	4	30	196x88x20
PD8-0.8/2.5-NE	800~2500	1.15	≤1.4	26	0.4	4	30	196x88x20
PD8-0.95/2.15-NE	950~2150	1.14	≤1.2	26	0.3	4	30	196x88x20
PD8-3.4/4.2-NE	3400~4200	1.13	≤3.0	28	0.3	4	30	208x62x22
PD8-4/7-NE	4000~7000	1.14	≤1.0	26	0.3	4	30	198x52x20
PD8-8/12-NE	8000~12000	1.12	≤1.8	24	0.4	5	20	196x55x20
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10 Way SMA Type Resistor Series

feature

- Characteristic Impedance: 50Ω
- Not available



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD10-DC/3-SER	DC~3000	1.18	≤23.5	15.0	0.8	15	2	85x148x12
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12 Way SMA Type Microstrip Series

feature

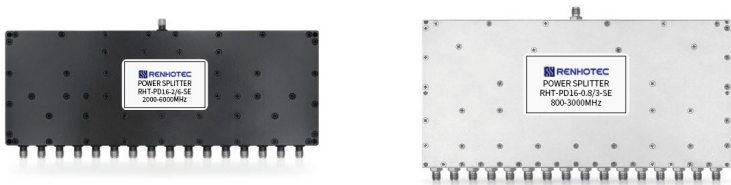
- Characteristic Impedance: 50Ω
- Theoretical Loss: 10.8dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD12-2/8-SE	2000~8000	1.18	≤1.6	25	0.6	3	30	156x92x10
PD12-6/18-SE	6000~18000	1.25	≤2.0	22	0.8	8	20	76x154x10
PD12-2/8-SE	2000~8000	1.18	≤1.6	25	0.6	6	30	156x92x10
PD12-8/12-SE	8000~12000	1.20	≤1.5	20	0.6	8	20	76x154x10
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16 Way SMA Type Microstrip Series

- feature
- Characteristic Impedance: 50Ω
 - Theoretical Loss: 12.0dB(The specifications below do not include the theoretical splitting loss.)



Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD16-0.5/6-SE	500~6000	1.13	≤3.8	28	0.4	8	30	140x236x12
PD16-0.5/8-SE	500~8000	1.13	≤4.5	26	0.4	8	20	232x150x10
PD16-0.8/3-SE	800~3000	1.13	≤1.4	26	0.3	5	30	212x104x12
PD16-2/6-SE	2000~6000	1.14	≤1.6	25	0.4	5	30	80x218x12
PD16-2/8-SE	2000~8000	1.14	≤2.8	25	0.4	6	30	218x100x12
PD16-4/20-SE	4000~20000	1.25	≤2.8	26	0.6	6	20	50x224x10
PD16-6/18-SE	6000~18000	1.25	≤1.8	26	0.6	6	20	60x212x10
PD16-8/12-SE	8000~12000	1.18	≤1.6	24	0.4	5	20	212x85x10
PD16-1.5/1.7-SE	1500~1700	1.12	≤0.6	26	0.3	3	30	214x118x10

32 Way SMA Type Microstrip Series

- feature
- Characteristic Impedance: 50Ω
 - Theoretical Loss: 15.0dB(The specifications below do not include the theoretical splitting loss.)



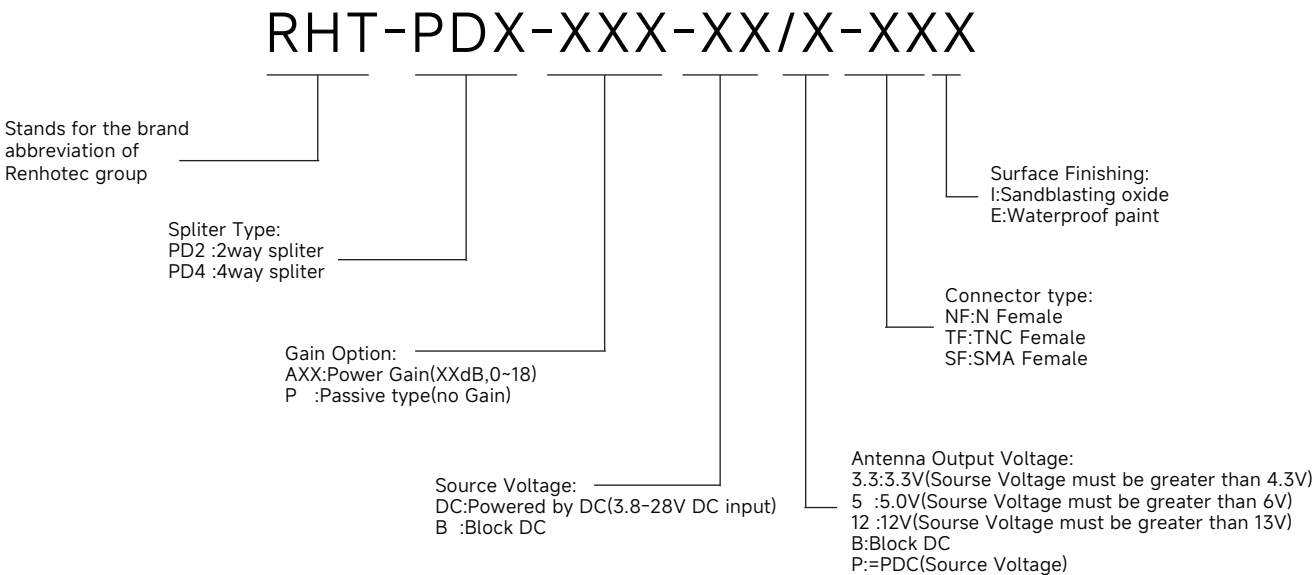
Model Number	Frequency Range (MHz)	Dividing Port VSWR (Typ.)	Insertion Loss (dB,Max)	Port Isolation (dB,Typ)	Amplitude Balance (±dB,Max)	Phase Balance (±°,Max)	Power Rating (W)	Product Dimensions (mm)
PD32-0.8/2.7-SE	800~2700	1.15	≤1.8	26	0.5	8	30	430x110x14
PD32-0.2/2.7-SE	200~2700	1.15	≤5.0	26	0.5	10	30	280x462x12
PD32-0.22/0.7-SE	220~700	1.12	≤3.5	26	0.5	12	10	80x460x12
PD32-0.95/1.95-SE	950~1950	1.12	≤1.5	26	0.4	5	30	432x150x14
PD32-1.4/2.7-SE	1400~2700	1.12	≤1.6	26	0.4	8	30	78x430x12
PD32-9.2/9.8-SE	9200~9800	1.16	≤2.0	24	0.4	8	20	637x100x12
PD32-12/18-SE	12000~18000	1.18	≤3.0	22	0.5	10	20	420x92x10
PD32-15/18-SE	15000~18000	1.16	≤3.0	22	0.5	10	20	420x95x10
PD32-16.6/17.4-SE	16600~17400	1.16	≤2.8	22	0.5	10	20	420x90x10
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GPS Active Power Divider / Combiner

The GPS active power divider is a device featuring one input port and multiple output ports, with built-in signal amplification capability. It is mainly used for splitting and amplifying GPS/Galileo/GNSS signals and distributing them to multiple GPS receivers. In addition, the power divider supports DC bias injection, enabling power supply to active GPS antennas. The DC power is introduced through the OUT1 port and delivered to the antenna via the ANT port.

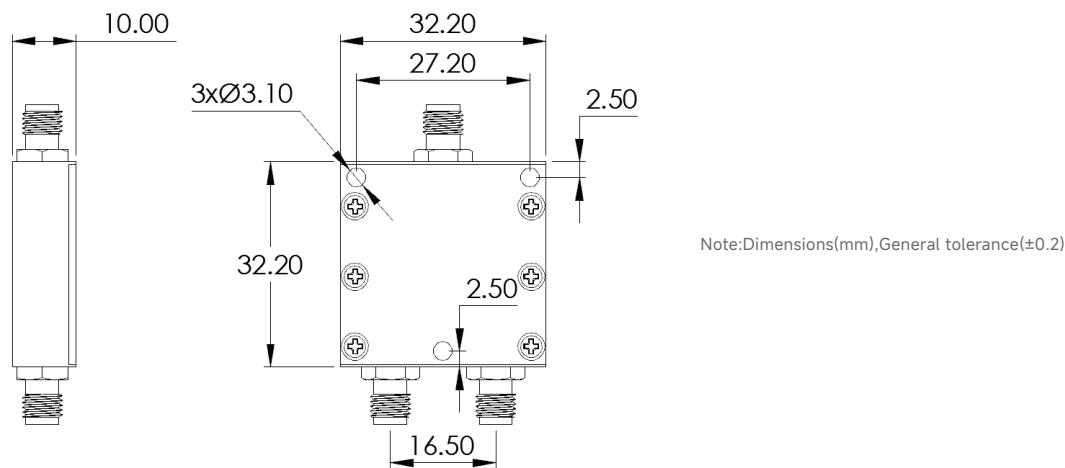


Compact Active Power Divider



Composition of GPD active power divider/circuit breaker:

Example:
RHT-PD2-A10-DC/5-TFI
RHT Stands for the brand abbreviation of Xinqiyuan Technology
PD2 Means 2 Way
A10 Represents the gain of 10dB
DC Indicates the DC power supply
5 Indicates that the antenna feed voltage is 5V. The actual input source voltage should be greater than 6V
TF Indicates TNC female head
I Stands for sandblasted shell material of this guide



Electrical Specifctions (Example: RHT-PD2-DC/P-SFI+)

Parameter	Performace
Frquency Range	1.1~1.7GHz Typ.(0.05~3GHz Max.)
Gain	9± 2dB Typ.
Input SWR	≤ 1.40:1 (0.05~2GHz) ≤ 1.80:1 (2~3GHz)
Output SWR	≤ 1.35:1
Noise Figure	≤ 1.8dB
1dB Comp.Pt	5dBm
Output IP3	16dBm
Amplified Balance	≤ 1dB
Phase Balance	≤ ±5°
Isolation	≥ 18dB
Operating Current	24mA@12V Typ.
DC Through Current	300mA Max.
DC Through Voltage	4.2V~18V
ANT Port DC Voltage	DC
Max RF Input	3DBm
Connector Type	SMA
Suraface Finishing & IP	IP64 (Conductive Oxidation Surface Treatment) IP65 (Waterproof Painting)

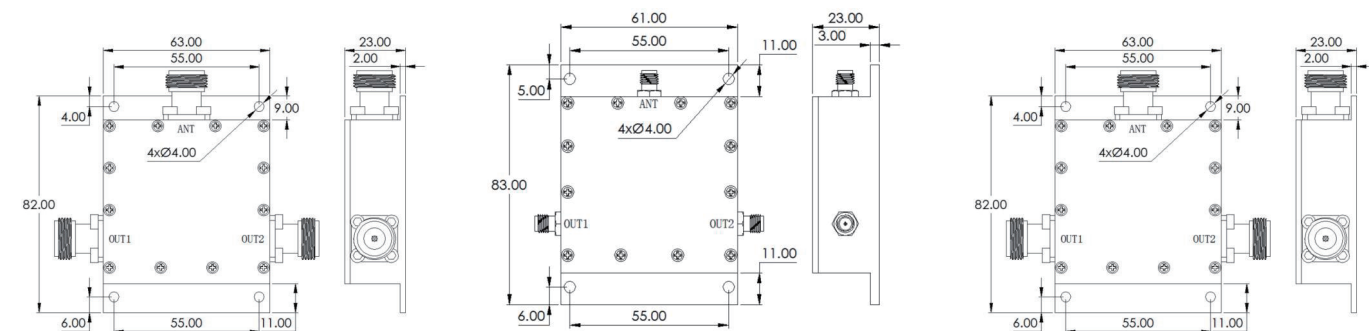
2 Way GPS Active Power Divider



(N-Type Connector)

(SMA-Type Connector)

(TNC-Type Connector)



Note:Dimensions(mm),General tolerance(±0.2)

Electrical Specifctions (Example: RHT-PD2-A10-DC/5-SFI)

Parameter	Performace
Frquency Range	1.1~1.7GHz Typ.(0.05~3GHz Max.)
Gain	10± 2dB Typ.
Input SWR	≤ 1.40:1 (0.05~2GHz) ≤ 1.65:1 (2~3GHz)
Output SWR	≤ 1.35:1
Noise Figure	≤ 1.8dB
1dB Comp.Pt	5dBm
Output IP3	16dBm
Amplified Balance	≤ 1dB
Phase Balance	≤ ±5°
Isolation	≥ 18dB
Operating Current	24mA@12V Typ.
DC Through Current	250mA Max.
DC Through Voltage	3.8V~28V
ANT Port DC Voltage	3.3V/5.0V/12V DC
Max RF Input	3dBm
Connector Type	SMA/TNC/N
Surafce Finishing & IP	IP64 (Conductive Oxidation Surface Treatment) IP65 (Waterproof Painting)

2 Way GPS Active Power Divider

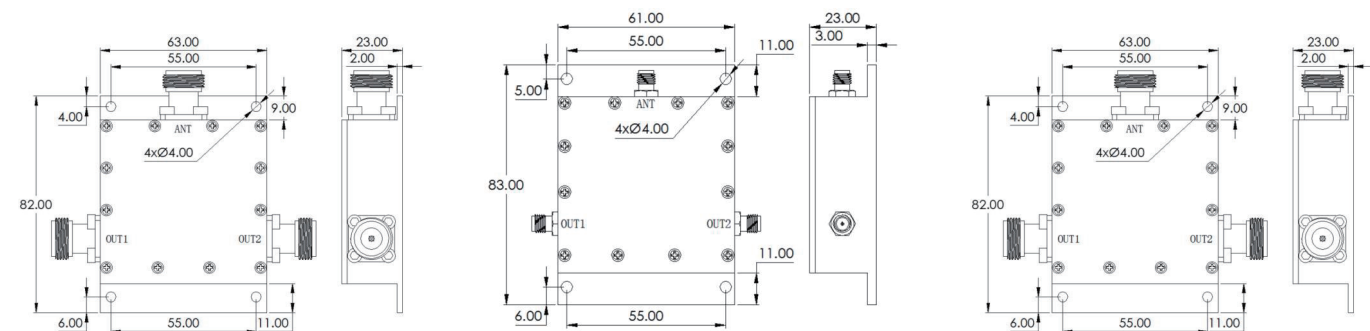
(Waterproof Painted Version)



(N-Type Connector)

(SMA-Type Connector)

(TNC-Type Connector)

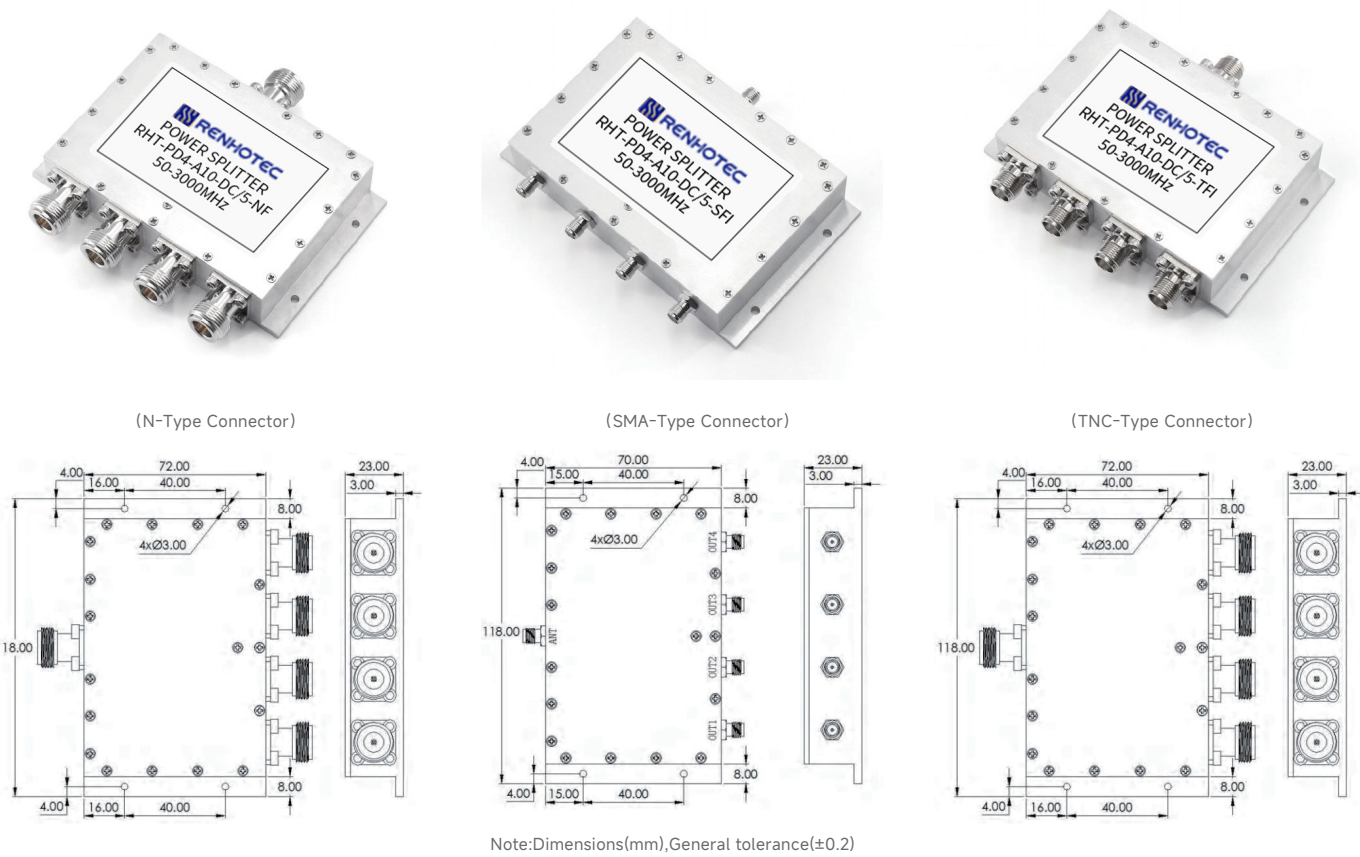


Note:Dimensions(mm),General tolerance(±0.2)

Electrical Specifctions (Example: RHT-PD2-PDC/5V-TE)

Parameter	Performace
Frquency Range	0.95~2.15GHz
Gain	10± 2dB Typ.
Input SWR	≤ 1.40:1
Output SWR	≤ 1.35:1
Noise Figure	≤ 1.8dB
1dB Comp.Pt	5dBm
Output IP3	16dBm
Amplified Balance	≤ 1dB
Phase Balance	≤ ±5°
Isolation	≥ 18dB
Operating Current	24mA@12V Typ.
DC Through Current	600mA Max.
DC Through Voltage	3.8V~28V
ANT Port DC Voltage	3.3V/5.0V/12V DC
Max RF Input	3dBm
Connector Type	SMA/TNC/N
Surafce Finishing & IP	IP64 (Conductive Oxidation Surface Treatment) IP65 (Waterproof Painting)

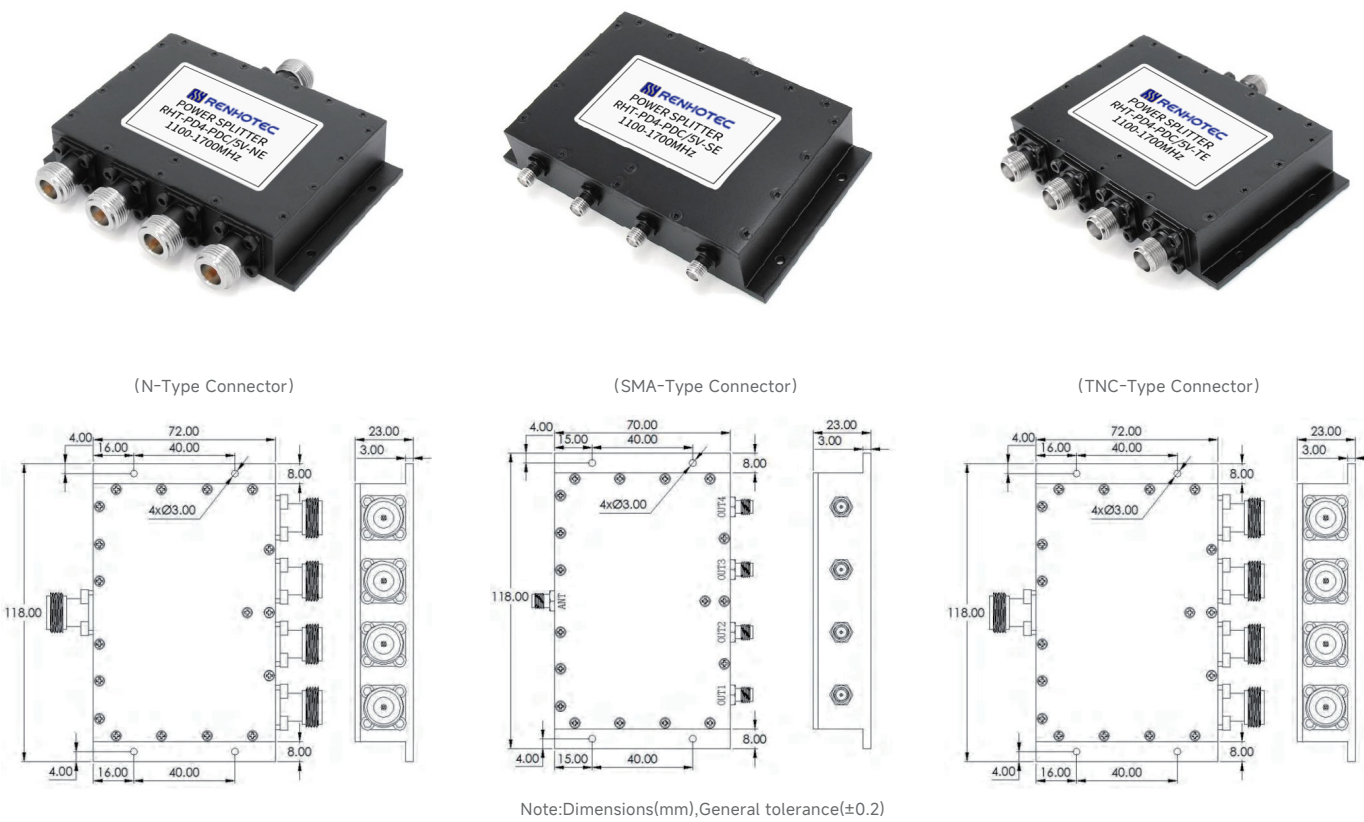
4 Way GPS Active Power Divider



Electrical Specifctions (Example: RHT-PD4-A10-DC/5-SFI)

Parameter	Performace
Frquency Range	1.1~1.7GHz Typ.(0.05~3GHz Max.)
Gain	10± 2dB Typ.
Input SWR	≤ 1.40:1 (0.05~2GHz) ≤ 1.65:1 (2~3GHz)
Output SWR	≤ 1.35:1
Noise Figure	≤ 1.8dB
1dB Comp.Pt	-4dBm
Output IP3	6dBm
Amplified Balance	≤ 1dB
Phase Balance	≤ ±5°
Isolation	≥ 33dB
Operating Current	40mA@12V Typ.
DC Through Current	250mA Max.
DC Through Voltage	3.8V~28V
ANT Port DC Voltage	3.3V/5.0V/12V DC
Max RF Input	3dBm
Connector Type	SMA/TNC/N
Surafce Finishing & IP	IP64 (Conductive Oxidation Surface Treatment)
	IP65 (Waterproof Painting)

4 Way CPD Active Power Divider



Electrical Specifctions (Example : RHT-PD4-PDC/5V-TE)

Parameter	Performace
Frquency Range	0.95~2.15GHz
Gain	10± 2dB Typ.
Input SWR	≤ 1.45:1
Output SWR	≤ 1.35:1
Noise Figure	≤ 1.9dB
1dB Comp.Pt	-4dBm
Output IP3	6dBm
Amplified Balance	≤ 1dB
Phase Balance	≤ ±5°
Isolation	≥ 33dB
Operating Current	40mA@12V Typ.
DC Through Current	600mA Max.
DC Through Voltage	3.8V~28V
ANT Port DC Voltage	3.3V/5.0V/12V DC
Max RF Input	3dBm
Connector Type	SMA/TNC/N
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