Shenzhen Yeric Communications Technology Co., LTD

PRODUCT CATALOGUE

- Base Station Product
- IBS Product
- Customized Product

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Dual band Combiner	YRCB18&21-26DP
1710-1880/ 1920-2180, 2500-2690MHz, 160dBc	

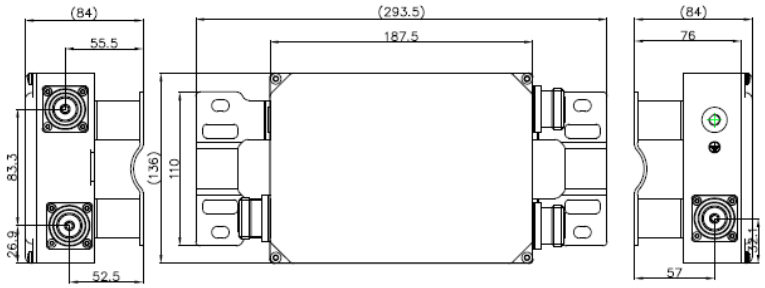
The Dual band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB18&21-26DP	
Frequency range	1710-2180 MHz	2400-2700MHz
Insertion loss	≤ 0.3 dB	≤ 0.4 dB
Rejection	≥ 50dB@806-960MHz ≥ 50dB@2400-2700MHz	≥ 50dB@806-960MHz ≥ 50dB@1710-2180MHz
Power capacity	250 W Avg	
Inter-modulation	≤ -160dBc(+43dBm*2)	
VSWR	≤1.25	
Impedance	50 Ω	
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT	
Safety	EN 60 950	
Environmental	ETS 300 019	
MTBF	>100,000 hours	
Operating temperature	-40°C to +65°C	
Relative humidity	0-95%	
Ingress protection	IP67	
Dimension	295 x 149x 85 mm	
Weight	≤2.5Kg	
Connector	7/16 DIN Female	

Sketch Diagram:



Dual band Combiner	YRCB04&07&08&09-18&21&26DP

470-960/1710-2700MHz, 160dBc

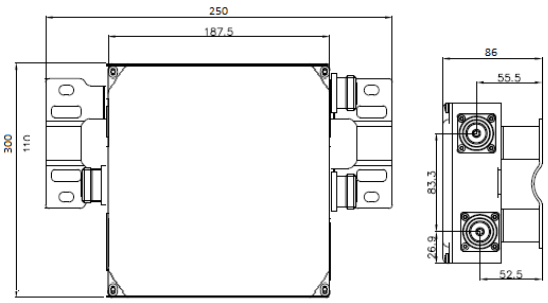
The Dual band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB04&07&08&09-18&21&26DP	
Frequency range	470-960 MHz	1710-2700 MHz
Insertion loss	≤ 0.5dB	≤ 0.4dB
Rejection	≥50dB@other bands	
Power capacity	250 W Avg	
Inter -modulation	≤ -160dBc@43dBm*2carriers	
VSWR	≤1.25	
Impedance	50 Ω	
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT	
Safety	EN 60 950	
Environmental	ETS 300 019	
MTBF	>100,000 hours	
Operating temperature	-40°C to +65°C	
Relative humidity	0-95%	
Ingress protection	IP67	
Dimension	250 x 300x 86 mm	
Weight	≤4Kg	
Connector	7/16 DIN Female	

Sketch Diagram:



Dual band Combiner	YRCB07&08&09&18&21-26D

698-2180/2400-2700MHz, 150dBc

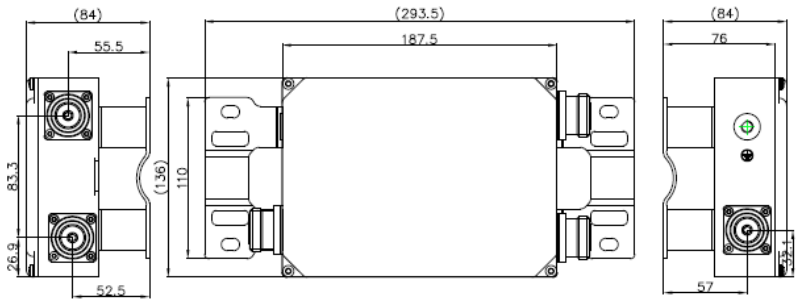
The Dual band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB07&08&09&18&21-26D	
Frequency range	690-2180 MHz	2400-2700MHz
Insertion loss	≤ 0.5 dB	≤ 0.4 dB
Rejection	≥ 50dB@2400-2700MHz	≥ 50dB@690-2180MHz
Power capacity	250 W Avg	
Inter-modulation	≤ -150dBc(+43dBm*2)	
VSWR	≤1.25	
Impedance	50 Ω	
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT	
Safety	EN 60 950	
Environmental	ETS 300 019	
MTBF	>100,000 hours	
Operating temperature	-40°C to +65°C	
Relative humidity	0-95%	
Ingress protection	IP67	
Dimension	295 x 149x 85 mm	
Weight	≤2.5Kg	
Connector	7/16 DIN Female	

Sketch Diagram:



Notes: Support any dual-band customized, 150dBc/160dBc, N/DIN type option.

Triple-band Combiner YRCB18-21-26DP

1710-1880/1920-2180/2500-2690MHz, 160dBc

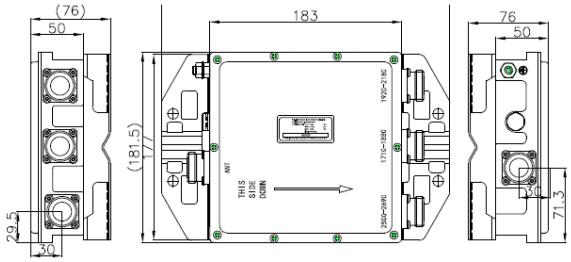
The Triple-band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB18-21-26D		
Frequency range	1710-1880 MHz	1920-2180MHz	2500-2690 MHz
Insertion loss	≤0.3dB	≤ 0.3 dB	≤ 0.4 dB
Rejection	≥ 50dB@1920-2180MHz ≥50dB@2500-2690MHz	≥ 50dB@1710-1880MHz ≥ 50dB@2500-2690MHz	≥ 50dB@1710-1880MHz ≥ 50dB@1920-2180MHz
DC by pass	pass	pass	Pass
DC pass current	≤3 A	≤3 A	≤3 A
Power capacity	250 W Avg		
Inter-modulation	≤ -160dBc(+43dBm*2)		
VSWR	≤1.25		
Impedance	50 Ω		
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT		
Safety	EN 60 950		
Environmental	ETS 300 019		
MTBF	>100,000 hours		
Operating temperature	-40°C to +65°C		
Relative humidity	0-95%		
Ingress protection	IP67		
Dimension	276 x 182x 82 mm		
Weight	≤4.5Kg		
Connector	7/16 DIN Female		

Sketch Diagram:



Triple-band Combiner YRCB18-21-26D

1710-1880/1920-2180/2500-2690MHz, 150dBc

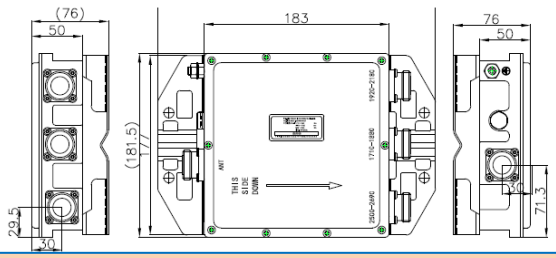
The Triple-band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB18-21-26D		
Frequency range	1710-1880 MHz	1920-2180MHz	2500-2690 MHz
Insertion loss	≤0.3dB	≤ 0.3 dB	≤ 0.4 dB
Rejection	≥ 50dB@1920-2180MHz ≥50dB@2500-2690MHz	≥ 50dB@1710-1880MHz ≥ 50dB@2500-2690MHz	≥ 50dB@1710-1880MHz ≥ 50dB@1920-2180MHz
DC by pass	pass	pass	Pass
DC pass current	≤3 A	≤3 A	≤3 A
Power capacity	250 W Avg		
Inter-modulation	≤ -150dBc(+43dBm*2)		
VSWR	≤1.25		
Impedance	50 Ω		
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT		
Safety	EN 60 950		
Environmental	ETS 300 019		
MTBF	>100,000 hours		
Operating temperature	-40°C to +65°C		
Relative humidity	0-95%		
Ingress protection	IP67		
Dimension	276 x 182x 82 mm		
Weight	≤4.5Kg		
Connector	7/16 DIN Female		

Sketch Diagram:



Notes: Support any dual-band customized, 150dBc/160dBc, N/DIN type option.

Quad-band Combiner	YRCB07&08&09-18-21-26DP

698-960/1710-1880/1920-2200/2300-2690MHz, 160dBc

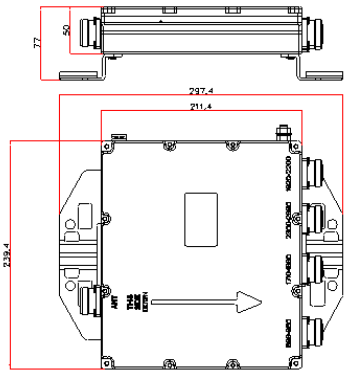
The Quad-band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCBO7&08&09-18-21-26DP			
Frequency range	698-960 MHz	1710-1880 MHz	1920-2200 MHz	2300-2690 MHz
Insertion loss	≤ 0.3dB			
Rejection	≥50dB@other bands			
Power capacity	250 W Avg			
Inter-modulation	≤ -160dBc@43dBm*2carriers			
VSWR	≤1.25			
Impedance	50 Ω			
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT			
Safety	EN 60 950			
Environmental	ETS 300 019			
MTBF	>100,000 hours			
Operating temperature	-40°C to +65°C			
Relative humidity	0-95%			
Ingress protection	IP67			
Dimension	250 x 300x 86 mm			
Weight	≤4.5Kg			
Connector	7/16 DIN Female			

Sketch Diagram:



Quad-band Combiner YRCB07&08&09-18-21-26DL

698-960/1710-1880/1920-2200/2300-2690MHz, 155dBc

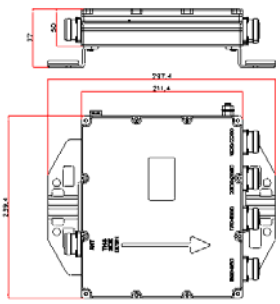
The Quad-band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB07&08&09-18-21-26DL			
Frequency range	698-960 MHz	1710-1880 MHz	1920-2200 MHz	2300-2690 MHz
Insertion loss	≤ 0.3dB			
Rejection	≥50dB@other bands			
Power capacity	250 W Avg			
Inter-modulation	≤ -155dBc@43dBm*2carriers			
VSWR	≤1.25			
Impedance	50 Ω			
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT			
Safety	EN 60 950			
Environmental	ETS 300 019			
MTBF	>100,000 hours			
Operating temperature	-40°C to +65°C			
Relative humidity	0-95%			
Ingress protection	IP67			
Dimension	250 x 300x 86 mm			
Weight	≤4.5Kg			
Connector	7/16 DIN Female			

Sketch Diagram:



Notes: Support any Quad-band customized, 150dBc/160dBc, N/DIN type option.

2in2out Hybrid Coupler	YRH698-2700-2-2D
698-2700MHz, 150dBc, DIN-F	

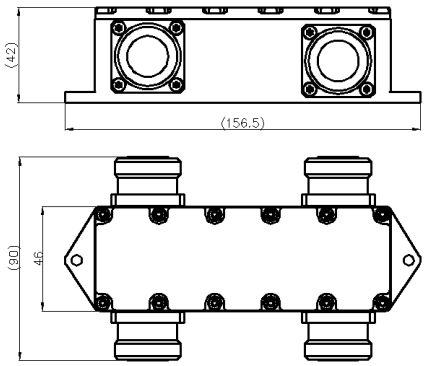
The Hybrid Combiner is designed for the same frequency band combination, providing low PIM, low insertion loss and high rejection solutions for BTS sites, suited for Indoor or outdoor environments.

- Wide frequency band: 698 to 2700MHz
- High power capacity and isolation
- Low PIM
- High ingress protection: supporting indoor and outdoor applications

Specifications

Frequency	698-2700MHz
Attenuation	3.05±0.5dB
Isolation	≥23.5dB
VSWR	≤1.25
Inter-modulation products	≤-150dBc(@2x43dBm)
Power capacity	Avg. 300W; Peak Value: 3000W
Weight	0.85Kg
Ingress protection	IP67
Relative humidity	0-97%
Operation Temperature	-40~+80℃
Dimension(L×W×H)	157x90x42mm
MTBF	≥100,000Hours
RF connector	7/16 DIN Female

Sketch Diagram:



4in4out Hybrid Combiner	YRH698-2700-4-4D
698-2700MHz, 150dBc, DIN-F	

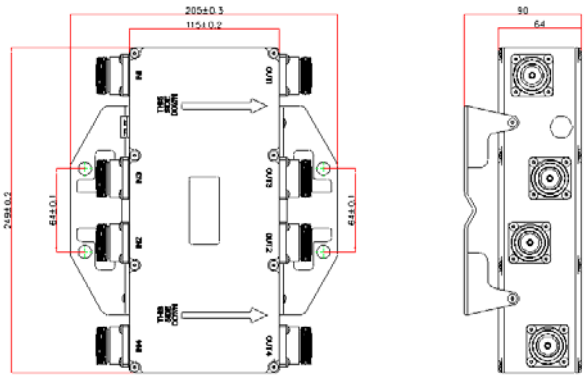
The hybrid coupler has 4 input ports and 4 output ports, designed to combine 4 same-bands together. It's suitable used between BTS and Antenna systems.

- Wide frequency band: 698 to 2700MHz
- High power capacity and isolation
- Low PIM
- High ingress protection: supporting indoor and outdoor applications

Specifications

Product number	YRH694-2700-4-4D
Frequency range	694-2700MHz
Coupling attenuation	6.1±0.9 dB
Lsolation	≥25 dB
Power capacity	500 W Avg, 3000W Peak.
Inter-modulation	≤ -150dBc (@43dBm*2)
VSWR	≤1.25
Impedance	50 Ω
Operating temperature	-35 to +65°C
Relative humidity	5 - 95%
Ingress protection	IP67
MTBF	>100,000 hours
Dimension	249*205*90.5mm
Weight	≤4 Kg
RF connector	7/16 DIN Female

Sketch Diagram:



2100MHz Filter	YRF2100-D-1

Pass bands:1920-1935MHz, 2110-2125MHz, DIN-F

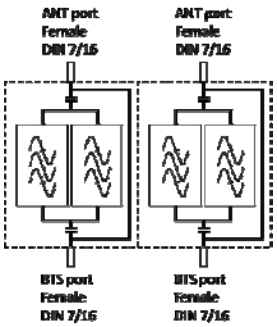
The Filter is designed for 2100MHz system to avoid spurious interference, consists of two band-pass filters, provides low PIM, low insertion loss and high rejection solutions for BTS sites, suited for Indoor or outdoor environments.

- high rejection
- Support DC by pss
- Low insertion loss
- High ingress protection: supporting indoor and outdoor applications

Specifications

Product number	YRF2100-D-1	
Pass band	RX: 1920-1935 MHz	TX: 2110-2125 MHz
Stop band	1940-2000 MHz	
Rejection	≥60dB @ 1940-2000 MHz	
Insertion loss	≤ 1.2dB @ 1922.5-1932.5 MHz	
VSWR	<1.25	
RF Power Handling	>50dBm (Avg power, 2110-2125 MHz)	
Impedance	50 Ω	
DC-bypass function	Yes	
DC-bypass current	≤3 A	
Operating temperature	-40 to +65°C	
Relative humidity	0 - 95%	
Ingress protection	IP67	
MTBF	>500,000 hours	
Lightning protection	8kA 8/20us	
Dimension	300x200x120 mm	
Weight	≤ 6 Kg	
Product Consist	Double Filters (Each Filter: ANT port x1, BTS port x1)	
RF Connectors	ANT: 7/16 DIN Female; BTS: 7/16 DIN Female	
Mounting	Wall and Pole mounting	
Finish	Painted, grey	
Application	Outdoor	

Sketch Diagram:



1900MHz Filter	YRF1900-D-1

Pass bands:1895-1910MHz, DIN-F

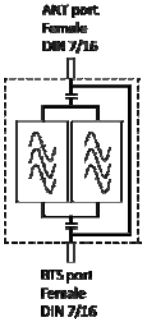
The Filter is designed for 1900MHz system to avoid spurious interference, consists of two band-pass filters, provides low PIM, low insertion loss and high rejection solutions for BTS sites, suited for Indoor or outdoor environments.

- high rejection
- Support DC by pss
- Low insertion loss
- High ingress protection: supporting indoor and outdoor applications

Specifications

Product Code	YRF1895-1910-N1
Frequency range	1895~1910 MHz
Insertion loss	≤1.5 dB; Typ ≤1.8dB
Rejection	≥50dB@1880MHz&1920MHz ≥80dB@1805MHz&2050MHz
Power capacity	Avg. value:200 W
VSWR	≤1.25
Impedance	50 Ω
Lighting protection	8/20 us,20KA; 10/350 us pulse, 3KA
Safety	EN 60 950
Environment	ETS 300 019
Operating temperature	-30 to +50°C
Relative humidity	0 - 95%
Ingress protection	IP65
MTBF	>100,000 hours
Dimension	431 x 135 x 102 mm(reference)
Weight	≤ 3.5 Kg(reference)
RF port	Input: 1(BTS), Output: 1(ANT)
RF connector	N Female
Material	AL 6061
Finish	Painting

Sketch Diagram:



850MHz Filter	YRF850-D-1

Pass bands:820-830MHz, 865-875MHz, DIN-F

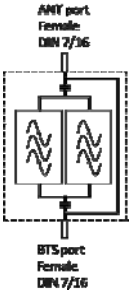
The Filter is designed for 850MHz system to avoid spurious interference, consists of two band-pass filters, provides low PIM, low insertion loss and high rejection solutions for BTS sites, suited for Indoor or outdoor environments.

- high rejection
- Support DC by pss
- Low insertion loss
- High ingress protection: supporting indoor and outdoor applications

Specifications

Product number	YRF850-D
Pass band	RX: 820-830MHz; TX: 865-875MHz
Stop band	804-815 MHz; 845-856 MHz
Insertion loss	<1dB @820-830 MHz <1dB@865-875 MHz
Rejection	>40dB @804-815 MHz >50dB @845-856 MHz
Power capacity	200 W Avg, 500W Max.
Inter-modulation	< -160dBc (5th order in Rx band, with2*43dBm CW signals in Tx band)
Return Loss	≥18 dB
Impedance	50 Ω
DC-bypass function	Yes
DC-bypass current	≤3 A
Operating temperature	-40 to +65°C
Relative humidity	0 - 95%
Ingress protection	IP67
MTBF	>100,000 hours
Dimension	431 x 135 x 102 mm(reference)
Weight	≤ 3.5 Kg
RF port	Input: 1(BTS), Output: 1(ANT)
RF connector	7/16 DIN Female

Sketch Diagram:



Notes: Support any band of filters customized, 150dBc/160dBc, N/DIN type option.

900MHz Duplexer	YRDP-900-D1

Pass bands:880-915MHz, 925-960MHz, DIN-F

The Duplexer is designed for 900MHz system to avoid spurious interference, provides low PIM, low insertion loss and high rejection solutions for BTS sites, suited for Indoor or outdoor environments.

- high rejection
- High isolation between different input ports
- Low insertion loss
- High ingress protection: supporting indoor and outdoor applications

Specifications

Product number	YRDP-900-D1	
Working Frequency Range （MHz）	Rx:880～915MHz	Tx:925～960MHz
Insertion Loss（dB）	≤1.5	≤1.5
In band ripple （dB）	≤0.9	≤0.9
Rejection（dB）	≥80dB@DC～845MHz ≥80dB@925～2000MHz	≥80dB@DC～915MHz ≥80dB@995～2000MHz
Inter-modulation	**≤-150/155 dBc @ 2x43dBm** ≤-150/160 dBc @ 2 x 43dBm	
VSWR	≤1.25	
Impedance（Ω）	50	
Isolation（Tx/Rx）（dB）	≥50dB	
Power Capacity（W）	200	
Overall Dimensions(L*W*H) (mm)	221*112*32	
Connection Model	DIN-F	
Working Temperature（℃）	-30～+75	
Relative Humidity（%）	5～95	
Weight（Kg）	≤2.1	
MTBF（HRS）	>100,000	

Sketch Diagram:

Notes: Support any band of Duplexers customized, 150dBc/160dBc, N/DIN type option.

IBS Product

Dual band Combiner	YRCB03-08&18N

350-366MHz, 806-866MHz / 1710-1880MHz, 150dBc

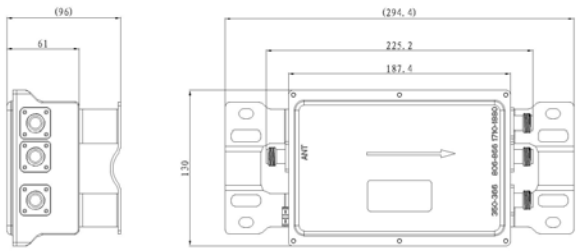
The Dual band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB03-08&18N	
Frequency range	350-366 MHz	806-866 MHz/1710-1880MHz(band3)
Insertion loss	≤0.3dB	≤ 0.3dB
In-band Ripple	≤0.2dB	≤0.3dB
Rejection	≥ 80dB@1710-1880MHz ≥ 80dB@806-866MHz	≥ 80dB@350-366 MHz
Power capacity	250 W Avg	
Inter-modulation	≤ -150dBc(+43dBm*2)	
VSWR	≤1.25	
Impedance	50 Ω	
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT	
Safety	EN 60 950	
Environmental	ETS 300 019	
MTBF	>100,000 hours	
Operating temperature	-40°C to +65°C	
Relative humidity	0-95%	
Ingress protection	IP67	
Dimension	194 x 128x 62 mm	
Weight	≤2.5Kg	
Connector	N -Female	

Sketch Diagram:



Dual band Combiner	YRCB18-21N

1710-1880MHz / 1920-2170MHz, 150dBc

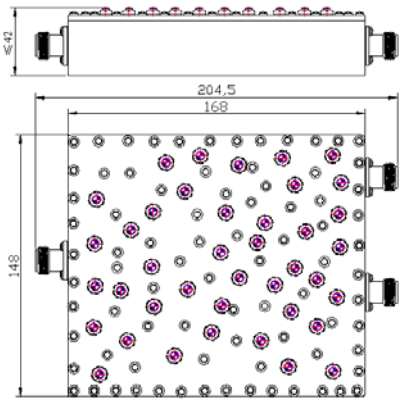
The Dual band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB18-21-N1	
Frequency range	1710-1880 MHz(band1)	1920-2170MHz(band2)
Insertion loss	≤ 0.6dB	≤ 0.6dB
In-band Ripple	≤0.4dB	≤0.4dB
Rejection	≥ 80dB@1920-2170MHz	≥ 80dB@1710-1880MHz
Power capacity	200 W Avg	
Inter-modulation	≤ -150dBc(+43dBm*2)	
VSWR	≤1.22	
Impedance	50 Ω	
MTBF	>100,000 hours	
Operating temperature	-40°C to +65°C	
Storing temperature	-40°C to +85°C	
Relative humidity	0-95%	
Ingress protection	IP55	
Dimension	204.5mm*148mm*42mm	
Weight	≤2.0Kg	
Connector	N -Female	

Sketch Diagram:



Notes: Support any dual-band of combiners customized, 150dBc/160dBc, N/DIN type option.

Tri-band Combiner	YRCB03&07&08&09-18-21N

380-960/1710-1880/1920-2170MHz, 150dBc

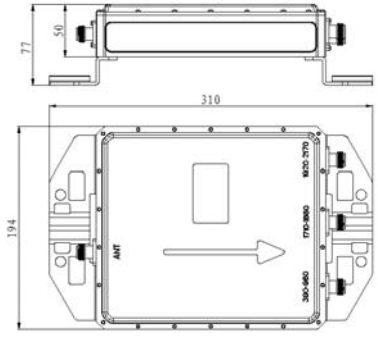
The Tri-band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB03&07&08&09-18-21N		
Frequency range	380-960 MHz(band1)	1710-1880 MHz(band2)	1920-2170MHz(band3)
Insertion loss	≤0.3dB	≤ 0.5dB	≤ 0.5dB
In-band Ripple	≤0.2dB	≤0.4dB	≤0.4dB
Rejection	≥ 80dB@1710-1880MHz ≥ 80dB@1920-2170MHz	≥ 80dB@806-960MHz ≥ 80dB@1920-2170MHz	≥ 80dB@806-960MHz ≥ 80dB@1710-1880MHz
Power capacity	250 W Avg		
Inter-modulation	≤ -150dBc(+43dBm*2)		
VSWR	≤1.25		
Impedance	50 Ω		
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT		
Safety	EN 60 950		
Environmental	ETS 300 019		
MTBF	>100,000 hours		
Operating temperature	-40°C to +65°C		
Relative humidity	0-95%		
Ingress protection	IP67		
Dimension	240 x 194x 50 mm		
Weight	≤2.2Kg		
Connector	N -Female		

Sketch Diagram:



Tri-band Combiner	YRCB08&09-18-21N

800-960/1710-1880/1920-2170MHz, 150dBc

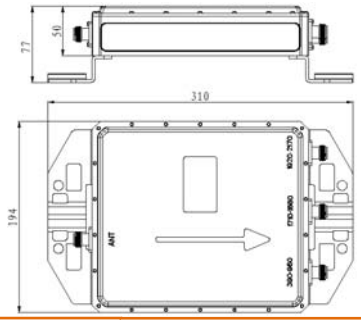
The Tri-band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB08&09-18-21N		
Frequency range	800-960 MHz(band1)	1710-1880 MHz(band2)	1920-2170MHz(band3)
Insertion loss	≤0.3dB	≤ 0.5dB	≤ 0.5dB
In-band Ripple	≤0.2dB	≤0.4dB	≤0.4dB
Rejection	≥ 80dB@1710-1880MHz ≥ 80dB@1920-2170MHz	≥ 80dB@806-960MHz ≥ 80dB@1920-2170MHz	≥ 80dB@806-960MHz ≥ 80dB@1710-1880MHz
Power capacity	250 W Avg		
Inter-modulation	≤ -150dBc(+43dBm*2)		
VSWR	≤1.25		
Impedance	50 Ω		
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT		
Safety	EN 60 950		
Environmental	ETS 300 019		
MTBF	>100,000 hours		
Operating temperature	-40°C to +65°C		
Relative humidity	0-95%		
Ingress protection	IP67		
Dimension	240 x 194x 50 mm		
Weight	≤2.2Kg		
Connector	N -Female		

Sketch Diagram:



Tri-band Combiner	YRCB03-08-18N

350-366MHz/ 806-866MHz/ 1710-1880MHz, 150dBc

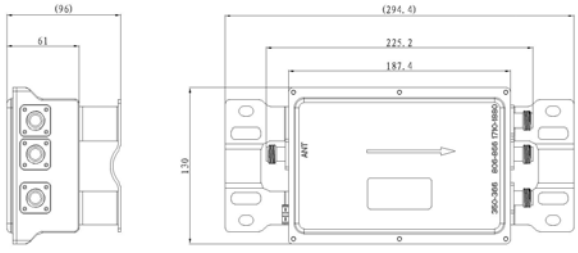
The Tri-band combiner is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRCB03-08-18N		
Frequency range	350-366 MHz(band1)	806-866 MHz(band2)	1710-1880MHz(band3)
Insertion loss	≤0.3dB	≤ 0.3dB	≤ 0.3dB
In-band Ripple	≤0.2dB	≤0.25dB	≤ 0.3dB
Rejection	≥ 80dB@1710-1880MHz ≥ 80dB@806-866MHz	≥ 80dB@350-366 MHz ≥ 80dB@1710-1880MHz	≥ 80dB@350-366 MHz ≥ 80dB@806-866MHz
Power capacity	250 W Avg		
Inter-modulation	≤ -150dBc(+43dBm*2)		
VSWR	≤1.25		
Impedance	50 Ω		
Lightning protection	8/20μs,20kA; 10/350 μs pulse, 3 kA Port ANT		
Safety	EN 60 950		
Environmental	ETS 300 019		
MTBF	>100,000 hours		
Operating temperature	-40°C to +65°C		
Relative humidity	0-95%		
Ingress protection	IP67		
Dimension	194 x 128x 62 mm		
Weight	≤2.5Kg		
Connector	N -Female		

Sketch Diagram:



Notes: Support any band of combiner customized, 150dBc/160dBc, N/DIN type option.

2in2out Hybrid Coupler	YRH698-2700-2-2N
698-2700MHz, 150dBc, N-F	

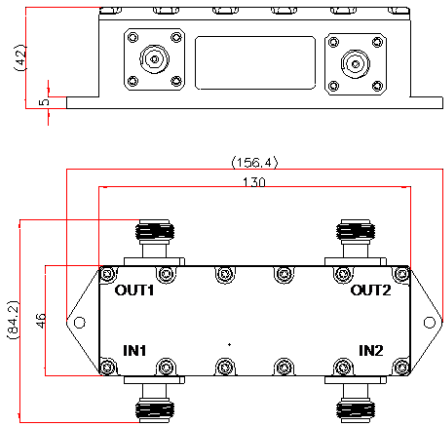
The Hybrid Combiner is designed for the same frequency band combination, providing low PIM, low insertion loss and high rejection solutions for BTS sites, suited for Indoor or outdoor environments.

- Wide frequency band: 698 to 2700MHz
- High power capacity and isolation
- Low PIM
- High ingress protection: supporting indoor and outdoor applications

Specifications

Frequency	698-2700MHz
Attenuation	3.05±0.5dB
Isolation	≥23.5dB
VSWR	≤1.25
Inter-modulation products	≤-150dBc(@2x43dBm)
Power capacity	Avg. 200W
Weight	0.85Kg
Ingress protection	IP67
Relative humidity	0-97%
Operation Temperature	-40~+80℃
Dimension(L×W×H)	157x90x42mm
MTBF	≥100,000Hours
RF connector	N Female

Sketch Diagram:



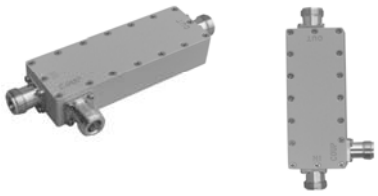
Couplers	YRCP698-2700

698-2700MHz, 150dBc, N-F

5,6,7,8,10,12,15, 20,25,30,35,40dB

The Series of Low-PIM couplers are designed for providing low PIM and low insert loss solution for the multi standards or multi operators in DAS systems.

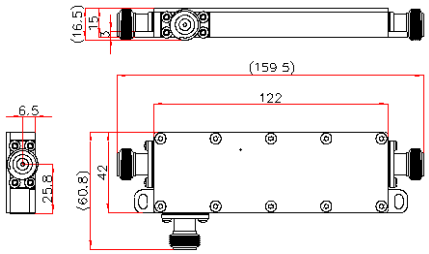
- Wide frequency band: 698 to 2700MHz
- High power capacity and isolation
- Low PIM
- Higher power capacity
- Small volume, Light weight



Specifications

Product number	YRCP698-2700-05NI	YRCP698-2700-06NI	YRCP698-2700-07NI	YRCP698-2700-08NI
Mean coupling	5.0±0.8	6.0±0.8	7.0±0.8	8.0±0.8
Product number	YRCP698-2700-10NI	YRCP698-2700-12NI	YRCP698-2700-15NI	YRCP698-2700-20NI
Mean coupling	10±1.0	12±1.0	15±1.0	20±1.2
Product number	YRCP698-2700-25NI	YRCP698-2700-30NI	YRCP698-2700-35NI	YRCP698-2700-40NI
Mean coupling	25±1.2	30±1.2	35±1.5	40±1.5
Frequency range	698-2700MHz			
PIM	≤-150dBc (with 2 x 43dBm)			
Directivity	≥20dB			
Insertion Loss(Exclude Distribution Loss)	≤0.5dB(5 to 10dB) ≤0.3dB(12 to 40dB)			
Weight	≤0.32Kg			
Dimension	160 x 61 x 16 mm			
Power capacity	Avg. 300W			
VSWR	≤1.25			
Impedance	50 Ω			
Operating temperature	-25℃ to +70℃			
Relative humidity	0~95%			
Ingress protection	IP55			
Connector	N-Female			

Sketch Diagram:

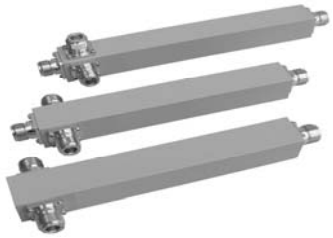


Power Splitters	YRCP698-2700-2/ 3/ 4

698-2700MHz, 150dBc, N-F

2Way, 3Way, 4Way

The Series of Low-PIM Power splitters are designed for providing low PIM and low insertion loss solution for the multi standards or multi operators in DAS systems.

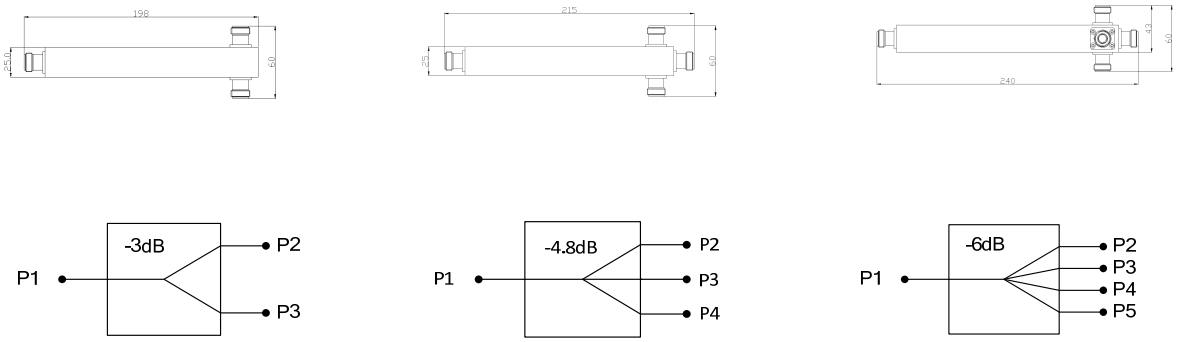


- Wide frequency band: 698 to 2700MHz
- High power capacity and isolation
- Low PIM
- Higher power capacity

Specifications

Frequency range	698-2700MHz		
Product number	YRS698-2700-2	YRS698-2700-3	YRS698-2700-4
Configuration	1:2	1:3	1:4
Distribution loss	3.0dB	4.8dB	6.0dB
Insertion loss (Exclude Distribution Loss)	≤0.3dB	≤0.3dB	≤0.3dB
Weight	≤0.35 Kg	≤0.38 Kg	≤0.45 Kg
Dimension	198 x 60 x 25 mm	215 x 60x 25 mm	240 x 60 x 43 mm
Inter-modulation	≤-150dBc (with 2 x 43dBm)		
Power capacity	Avg: ≤200W		
VSWR	≤1.25		
Impedance	50 Ω		
Operating temperature	-25℃ to +70℃		
Relative humidity	0~95%		
Ingress protection	IP65		
Connector	N-Female		

Sketch Diagram:



YRS698-2700-2　　YRS698-2700-3　　YRS698-2700-4

Power Load	YRPL-100/150/200-D

0-3000MHz, 120dBc/150dBc, DIN-F

100W, 150W, 200W

The range of termination load resisters is designed to give an economic solution to the growing need for a compact, rugged and simple termination suitable for bench or filed use.

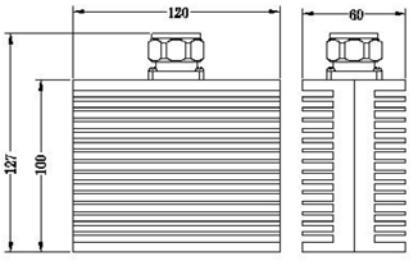
This series of terminations are medium power coaxial loads which operate from DC to 3GHz. Cooling fins minimize temperature rise. The terminating element is enclosed within a carefully matched coaxial housing.

- Wide frequency band: 0 to 3000MHz
- High power capacity and multiple option
- Low PIM
- Higher power capacity

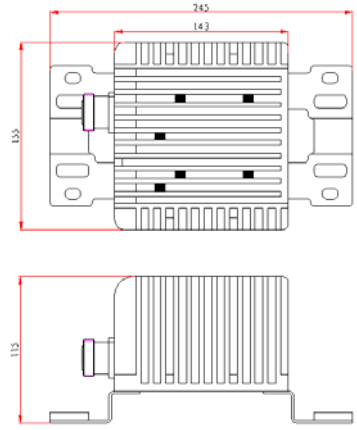
Specifications

Frequency range	0 - 3000 MHz		
Product number	YRPL-100-D	YRPL-150-D	YRPL-200-D
Power capacity	100 W	150W	200W
Weight	≤1.25 Kg	≤4.5 Kg	≤5.0 Kg
Dimension	120x127x60mm	245x155x115mm	
Ingress protection	IP55	IP66	
Inter-modulation	≤-120dBc (with 2 x 43dBm)	≤-150dBc (with 2 x 43dBm)	
VSWR	≤1.20	≤1.20	
Impedance	50 Ohms		
Connector	DIN-Male		
Operating temperature	-40℃ to +85℃		
Relative humidity	0 to 95%		

Sketch Diagram:



100W



150W, 200W

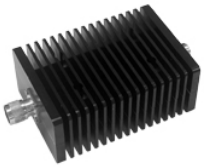
Attenuators	YRAT1W-3dB to YRAT200W-15dB

0-3000MHz, N-F

1W or 200W, 3-15dB Attenuation

The range of power attenuators is available in rating of 1, 2, 5, 10, 25, 50, 100, 200w etc. Each power class attenuator supports attenuation level of 3, 6, 10, 15dB.

The fixings of these devices are arranged to provide flexibility for inclusion within all types of equipment. A wide variety of alternative base plates can be offered with drilled and tapped holes to suit customer requirements.



- Wide frequency band: 0 to 3000MHz
- High power capacity and multiple option
- High reliability
- Easy installation

Specifications

Frequency range	0 – 3000 MHz
Power capacity	1-200W
Attenuation range	3dB, 6dB, 10dB, 15dB or others
Ingress protection	IP55
Inter-modulation	≤-120dBc (with 2 x 43dBm) or ≤-150dBc (with 2 x 43dBm)
VSWR	≤1.20
Impedance	50 Ohms
Connector	N-Male or DIN-Male
Operating temperature	-40℃ to +85℃
Relative humidity	0 to 95%

SISO Omni Antenna	YRAO698-2700- 3

Omni Directional Antenna 3dBi, 140/150dBc, N-F

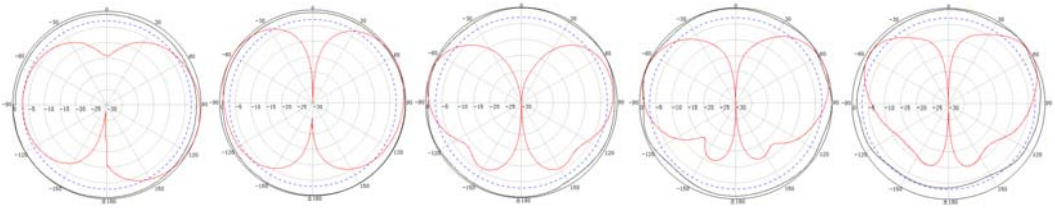
This indoor Omni antenna is specifically designed for Multi band in building system of LTE, GSM, DCS, CDMA, UMTS, 3G, WiFi, WLAN services. The antenna is constructed from lightweight materials, suitable for ceiling mounting. The off-white Radome blends easily into most in door environments.

- Wide frequency band: 698 to 2700MHz
- LTE ready and wide frequency band: including CDMA800, GSM900, DCS1800, UMTS2100, CDMA1900, LTE2600,WiFi Low PIM
- Higher power capacity
- Small volume, Light weight
- Extend a Low Loss pig tail cable

Specifications

Frequency Range	698-960 MHz	1710-2700 MHz
Gain	2 dBi	3.5 dBi
VSWR	≤1.8	≤1.5
Polarization	Vertical	
3rd PIM (2×33 dBm)	≤-140 dBc or ≤-150dBc	
Horizontal Beam width	360°	
Vertical Beam width	85°/54°	
Input Impedance	50 Ω	
Max. Power	50 W	
Lightning Protection	DC Ground	
Connector	N-Female	
Dimensions	Ø186×86 mm	
Packing Size	170×180×180 mm	
Weight	0.25 kg	
Reflector Material	Brass	
Radome Material	ABS	
Operating Temperature	-40°C to +65 °C	

Test screen:



700MHz 900MHz 1800MHz 2100MHz 2700MHz

‘SISO Panel Antenna	YRAD698-2700- 7

Directional Panel Antenna 7dBi, 140/150dBc, N-F

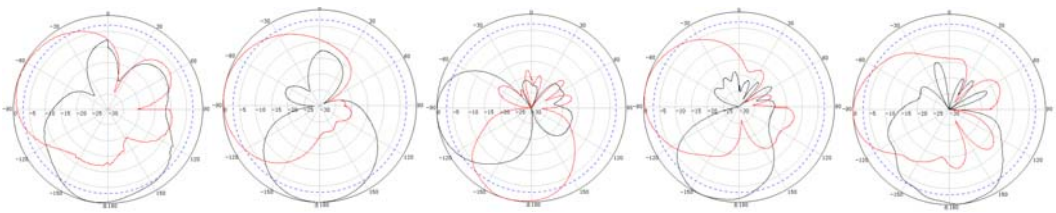
This indoor directional antenna is specifically designed for Multi band in building system of LTE, GSM, DCS, CDMA, UMTS, 3G, WiFi, WLAN services. The antenna is constructed from lightweight materials, suitable for ceiling mounting. The off-white Radome blends easily into most in door environments.

- Wide frequency band: 698 to 2700MHz
- LTE ready and wide frequency band: including CDMA800, GSM900, DCS1800, UMTS2100, CDMA1900, LTE2600,WiFi Low PIM
- Higher power capacity
- Small volume, Light weight
- Extend a Low Loss pig tail cable

Specifications

Frequency Range	698-960 MHz	1710-2700 MHz
Gain	6.5 dBi	9 dBi
VSWR	≤2.0	≤1.8
Polarization	Vertical	
3rd PIM (2×33 dBm)	≤-140 dBc or ≤-150 dBc	
Front and Back Ratio	≥13 dB	
Horizontal Beamwidth	65°	
Vertical Beamwidth	55°	
Input Impedance	50 Ω	
Max.Power	50 W	
Connector	N-Female	
Dimensions	165×155×50 mm	
Weight	0.4 kg	
Reflector Material	Al	
Radome Material	ABS	
Max. Wind Speed	210 km/h	
Operating Temperature	-40°C to +65 °C	

Test screen:



700MHz 900MHz 1800MHz 2100MHz 2700MHz

MIMO Omni Antenna	YRAO698-2700- 3MIMO

Omni Directional Antenna 3dBi, 140/150dBc, N-F

This indoor MIMO Omni antenna is specifically designed for Multi band in building system of LTE, GSM, DCS, CDMA, UMTS, 3G, WiFi, WLAN services. The antenna is constructed from lightweight materials, suitable for ceiling mounting. The off-white Radome blends easily into most in door environments.

- Both ports support wide frequency band: 698 to 2700MHz
- LTE ready and wide frequency band: including CDMA800, GSM900, DCS1800, UMTS2100, CDMA1900, LTE2600,WiFi Low PIM
- Higher power capacity
- Small volume, Light weight
- Extend a Low Loss pig tail cable

Specifications

Ports		Port 1			Port 2		
Frequency Range	MHz	698-960	1710-2170	2400-2700	698-960	1710-2170	2400-2700
Gain	dBi	3.0	4.5		3.0	4.5	
VSWR		≤2.0	≤1.7		≤2.0	≤1.7	
Polarization		Vertical			Vertical		
Isolation	dB	>20	>25		>20	>25	
3rd PIM		≤-140dBc or ≤-150dBc (2×43 dBm)					
Horizontal Beamwidth		360°					
Vertical Beamwidth		90°/55°					
Input Impedance		50Ω					
Max.Power		50W					
Lightning Protection		DC ground					
Connector		2×N-Female					
Dimensions		38×210mm					
Weight		0.45kg					
Reflector Material		Cu / PCB					
Radome Material		ABS					
Operating Temperature		-40°C to +65					

MIMO Panel Antenna	YRAD698-2700- 7MIMO

MIMO Directional Panel Antenna 7dBi, 140/150dBc, N-F

This indoor MIMO Directional panel antenna is specifically designed for Multi band in building system of LTE, GSM, DCS, CDMA, UMTS, 3G, WiFi, WLAN services. The antenna is constructed from lightweight materials, suitable for ceiling mounting. The off-white Radome blends easily into most in door environments.

- Both ports support wide frequency band: 698 to 2700MHz
- LTE ready and wide frequency band: including CDMA800, GSM900, DCS1800, UMTS2100, CDMA1900, LTE2600,WiFi Low PIM
- Higher power capacity
- Small volume, Light weight
- Extend a Low Loss pig tail cable

Specifications

Frequency Range	MHz	698-864	870-960	1710-1880	1920-2170	2200-2500	2490-2700
Gain	dBi	6.5	7.0	8.5	9.0	8.0	7.5
VSWR		≤2.0		≤1.8			
Polarization		Vertical					
Isolation	dB	23					
3rd PIM (2×43 dBm)	dBc	≤ -150					
Horizontal Beamwidth	deg	78	73	65			60
Vertical Beamwidth	deg	70		55/65		75/55	
Input Impedance	Ω	50					
Max.Power	W	100		50			
Lightning Protection		DC Ground					
Connector		2 x N-Female					
Dimensions	mm	315x195x68					
Weight	kg	0.7					
Reflector Material		Cu / PCB					
Radome Material		ABS					
Operating Temperature	°C	-40°C to +65					
Installation		Wall mount/Pole mount					

Notes: Support any band of Duplexers customized, 150dBc/160dBc, N/DIN type option.

Feeder Cable	1/2", 7/8", 1 1/4", 1 5/8" etc.

All kinds of RF feeder cable can be provided.

- Land mobile and cellular radio
- Earth station antenna jumper cables
- Jumpers for equipments room and antenna connection
- Military data links
- VLF, AM and FM radio broadcast systems
- Airborne and shipboard radar systems
- Tactical, restoration and portable communication systems

Specifications

Parameter	1/2" Feeder Cable	7/8" Feeder Cable
Jacket Material	Non-halogenated, fire retardant polyolefin	
Outer Conductor Material	Corrugated copper	
Dielectric Material	Foam PE	
Flexibility	Standard	
Inner Conductor Material	Copper tube	
Jacket Color	Black	
Operating Temperature	-30 °C to +80 °C	
BenDINg Moment	3.8 N-m | 2.8 ft lb	19.0 N-m | 14 ft lb
Minimum Bend Radius, Multiple Bends	127.00 mm | 5.00 in	254.00 mm | 10.00 in
Minimum Bend Radius, Single Bend	50.80 mm | 2.00 in	127.00 mm | 5.00 in
Number of Bends, minimum	15	15
Number of Bends, typical	50	30
Tensile Strength	113 kg	159 kg
Cable Impedance	50 ohm ± 1 ohm	50 ohm ± 1 ohm
dc Resistance, Inner Conductor	4.856 ohms/km	1.435 ohms/km
dc Resistance, Outer Conductor	1.903 ohms/km	1.116 ohms/km
dc Test Voltage	4000 V	6000 V
Insulation Resistance	100000 MOhm	100000 MOhm
Jacket Spark Test Voltage (rms)	5000 V	8000 V
Operating Frequency Band	1 – 5000 MHz	1 – 5000 MHz
Peak Power	40.0 kW	91.0 kW

Frequency (MHz)	Attenuation (dB/100 m)		Avg Power (kW)	
	1/2" Feeder Cable	7/8" Feeder Cable	1/2" Feeder Cable	7/8" Feeder Cable

0.5	0.149	0.076	40	91
1	0.211	0.108	36.11	77.97
1.5	0.259	0.132	29.46	63.61
2	0.299	0.153	25.5	55.06
10	0.672	0.343	11.35	24.48
20	0.954	0.487	7.99	17.23
30	1.172	0.599	6.51	14.02
50	1.521	0.777	5.02	10.81
88	2.031	1.039	3.76	8.08
100	2.169	1.11	3.52	7.57
108	2.256	1.155	3.38	7.27
150	2.673	1.369	2.85	6.14
174	2.887	1.479	2.64	5.68
200	3.103	1.591	2.46	5.28
300	3.835	1.968	1.99	4.27
400	4.462	2.292	1.71	3.67
450	4.749	2.44	1.61	3.44
500	5.021	2.581	1.52	3.25
512	5.085	2.614	1.5	3.21
600	5.533	2.846	1.38	2.95
700	6.009	3.093	1.27	2.72
800	6.456	3.325	1.18	2.53
824	6.56	3.379	1.16	2.49
894	6.855	3.533	1.11	2.38
960	7.124	3.673	1.07	2.29
1000	7.284	3.756	1.05	2.24
1250	8.226	4.247	0.93	1.98
1500	9.093	4.7	0.84	1.79
1700	9.744	5.04	0.78	1.67
1800	10.058	5.205	0.76	1.61
2000	10.666	5.523	0.72	1.52
2100	10.961	5.678	0.7	1.48
2200	11.251	5.83	0.68	1.44
2300	11.535	5.979	0.66	1.4
2500	12.09	6.27	0.63	1.34
2700	12.627	6.553	0.6	1.28
3000	13.407	6.963	0.57	1.21
3400	14.401	7.487	0.53	1.12
3700	15.118	7.866	0.5	1.07
4000	15.815	8.234	0.48	1.02
5000	18.01	9.396		0.89

Connectors for Feeder Cable — N type, DIN type, SMA, etc.

All kinds of connectors for RF feeder cable can be provided.

- Connecting mobile and cellular radio
- Lower insertion loss
- Higher reliability
- Easy installation for indoor and outdoor

Specifications

Impedance（Ω）	50
Dielectric Resistance（mΩ）	≧5000
Touch Resistance（mΩ）	Inner Conductor≤1,Outer Conductor ≤1
Rated Voltage（V）	1000
Frequency Range（GHz）	0～11
Insertion Loss（dB）	≤0.12　(0～3 GHz)
Durability	Mating cycles ≧500
Voltage for Isolation（V）	2500
VSWR	≤1.1
Temperature Range (°C)	-55 °C to +85 °C
MTBF	30000

Adapters — N type, DIN type, SMA, etc.

kinds of adapters for RF feeder cable can be provided.

Specifications

Adaptor Type	N(F) - N(F)	N(M) - N(M)	N(M) to 7/16 DIN (F)	N(F) to TNC(M) L Angle	L Angle adaptor N(M) to N(F)	TNC(M) to N(M)	N(F) to TNC(M)
VSWR	≤1.10	≤1.10	≤1.15	≤1.15	≤1.15	≤1.15	≤1.15
Insertion Loss(0～3 GHz)	≤0.15	≤0.15	≤0.2	≤0.35	≤0.3	≤0.2	≤0.2
Impedance（Ω）	50						
Dielectric Resistance（mΩ）	≧5000						
Rated Voltage（V）	1000						
Frequency Range（GHz）	0～11						
Durability	Mating cycles ≧500						
Voltage for Isolation（V）	2500						
VSWR	≤1.1						
Temperature Range (°C)	-40~+85						
MTBF	30000						

Customized Product

2in 2out 3dB Hybrid Coupler	YRH350-2700-2-2N
350-2700MHz, 150dBc, N-F	

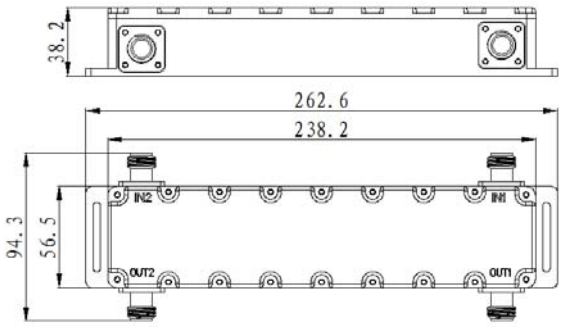
The Hybrid Combiner is designed for the same frequency band combination, providing low PIM, low insertion loss and high rejection solutions for BTS sites, suited for Indoor or outdoor environments.

- Wide frequency band: 350 to 2700MHz
- High power capacity and isolation
- Low PIM
- High ingress protection: supporting indoor and outdoor applications

Specifications

Frequency	350-2700MHz
Attenuation	3.05±0.7dB
Isolation	≥23.5dB
VSWR	≤1.25
Inter-modulation products	≤-150dBc(@2x43dBm)
Power capacity	Avg. 200W
Weight	1.3Kg
Ingress protection	IP67
Relative humidity	0-97%
Operation Temperature	-40~+80℃
Dimension(L×W×H)	262.6x 94.3x 38.2mm
MTBF	≥100,000Hours
RF connector	N Female

Sketch Diagram:



350-2700MHz Couplers	YRCP350-2700

350-2700MHz, 150dBc, N-F

6, 10,15, 20, 30dB

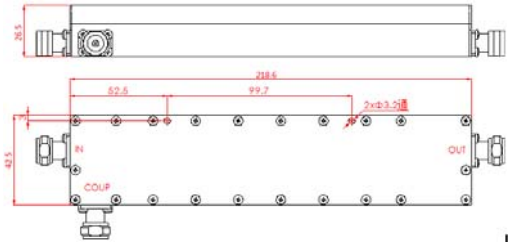
The Series of Low-PIM couplers are designed for providing low PIM and low insert loss solution for the multi standards or multi operators in DAS systems.

- Wide frequency band: 350 to 2700MHz
- High power capacity and isolation
- Low PIM
- Higher power capacity
- Small volume, Light weight

Specifications

Product number	YRCP350-2700-6N	YRCP350-2700-10N	YRCP350-2700-15N	YRCP350-2700-20N
Mean coupling	6dB	10dB	15dB	20dB
In-band ripple	≤±1.0dB	≤±1.0dB	≤±1.2dB	≤±1.3dB
Insertion loss	≤1.5dB	≤0.6dB	≤0.3dB	≤0.2dB
Product number	YRCP350-1880-30N			
Mean coupling	30dB			
In-band ripple	≤±1.5dB			
Insertion loss	≤0.2dB			
Frequency range	350-2700MHz			
PIM	≤-150dBc (with 2 x 43dBm)			
Directivity	≥20dB			
Weight	≤0.5Kg			
Dimension	218．6 x 42.5 x 26.5 mm			
Power capacity	200W			
VSWR	≤1.25			
Impedance	50 Ω			
Operating temperature	-25℃ to +70℃			
Relative humidity	0~95%			
Ingress protection	IP65			
Connector	N-Female			

Sketch Diagram:

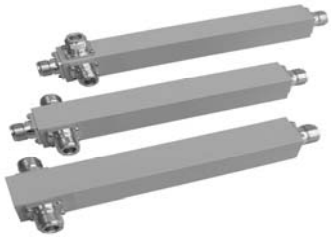


350-2700MHz Power Splitters	YRCP350-2700-2/ 3/ 4

350-2700MHz, 150dBc, N-F

2Way, 3Way, 4Way

The Series of Low-PIM Power splitters are designed for providing low PIM and low insertion loss solution for the multi standards or multi operators in DAS systems.

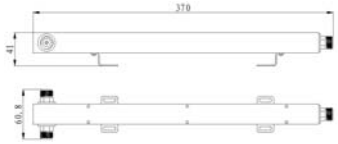


- Wide frequency band: 350 to 2700MHz
- High power capacity and isolation
- Low PIM
- Higher power capacity

Specifications

Frequency range	350-2700MHz		
Product number	YRS350-2700-2	YRS350-2700-3	YRS350-2700-4
Configuration	1:2	1:3	1:4
Distribution loss	3.0dB	4.8dB	6.0dB
Insertion loss (Exclude Distribution Loss)	≤0.3dB	≤0.5dB	≤0.5dB
VSWR	≤1.25	≤1.3	≤1.3
Weight	≤0.68 Kg	≤0.85 Kg	≤0.86 Kg
Dimension	370 x 60.8 x 41 mm	450 x 60.8x 41 mm	450 x 60.8 x 58.9 mm
Inter-modulation	≤-150dBc (with 2 x 43dBm)		
Power capacity	Avg: ≤200W		
Impedance	50 Ω		
Operating temperature	-25℃ to +70℃		
Relative humidity	0~95%		
Ingress protection	IP65		
Connector	N-Female		

Sketch Diagram:



YRS350-2700-2

YRS350-2700-3

YRS350-2700-4

7 Channels Duplexer | YRDUP7-889-2370-20-01

889-915/ 1710-1785/ 1805-1880/ 1920-1980/ 2110-2170/ 2320-2370MHz, 150dBc, SMA-F/N-F.

Basing on customized requirement, the 7 channels duplexer is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- Support multiple systems

Specifications

Product number	YRDUP7-889-2370-20-01						
Frequency range(MHz)	889-915	934-960	1710-1785	1805-1880	1920-1980	2110-2170	2320-2370
Bandwidth(MHz)	26	26	75	75	60	60	50
Insertion loss(dB)	≤ 1.2	≤ 1.2	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
In-band Ripple(dB)	≤0.8	≤0.8	≤1.0	≤1.0	≤0.8	≤0.8	≤0.8
Rejection(dB)	≥70@DC-849MHz ≥30@880MHz ≥30@924.5MHz ≥60@934-3GHz	≥70@DC-849MHz ≥60@849-915MHz ≥30@924.5MHz ≥30@980MHz ≥60@1000-3GHz	≥70@DC-880MHz ≥55@1000-1670MHz ≥35@1795MHz ≥60@1805-3GHz	≥70@DC-880MHz ≥60@920-1785MHz ≥35@1795MHz ≥35@1900MHz ≥60@1920-3GHz	≥70@DC-880MHz ≥60@920-1880MHz ≥35@1900MHz ≥45@2045MHz ≥60@2110-3GHz	≥70@DC-880MHz ≥60@920-1980MHz ≥45@2045MHz ≥25@2090MHz ≥25@2190MHz ≥60@2320-3GHz	≥70@DC-880MHz ≥60@920-2280MHz ≥60@2410-3GHz
Isolation(dB)	≥60						
Power capacity	40 W Avg each port.						
Inter-modulation	≤ -150dBc(+43dBm*2)						
VSWR	≤1.3						
Impedance	50 Ω						
MTBF	>100,000 hours						
Working Temperature	-40°C to +65°C						
Relative humidity	0-95%						
Ingress protection	IP55						
Dimension	178*130*90mm						
Weight	≤3.0Kg						
Input connector	SMA-F						
Output connector	N –Female						

4 Channels Duplexer	YRDU1880/60-1960/60-1735/50-2135/50-1
889-915/ 1710-1785/ 1805-1880/ 1920-1980/ 2110-2170/ 2320-2370MHz, 150dBc, SMA-F/N-F.	

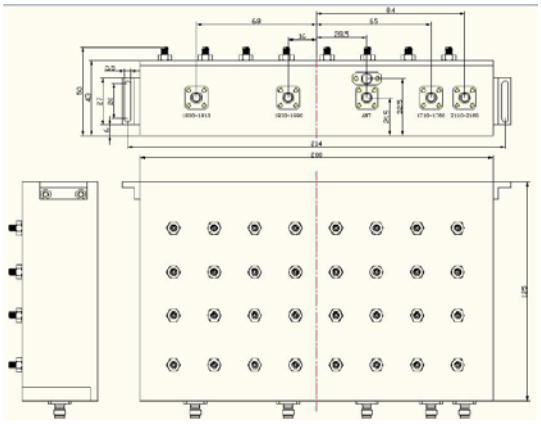
Basing on customized requirement, the 4 channels duplexer is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection

Specifications

Product number	YRDU1880/60-1960/60-1735/50-2135/50-1			
Frequency range(MHz)	1850-1910	1930-1990	1710-1760	2110-2160
Insertion loss(dB)	≤ 1.8		≤ 1.8	
In-band Ripple(dB)	≤1.2		≤1.2	
Rejection(dB)	≥ 5@± 5MHz ≥25@－10MHz ≥40@＋10MHz ≥35@－20MHz	≥ 5@± 5MHz ≥40@－10MHz ≥25@＋10MHz ≥35@＋20MHz	≥ 5@± 5MHz ≥15@－10MHz ≥15@＋10MHz ≥20@－20MHz ≥20@＋20MHz	≥ 5@± 5MHz ≥10@－10MHz ≥10@＋10MHz ≥15@－20MHz ≥15@＋20MHz
Isolation(dB)	≥80		≥75	
Power capacity	150 W Avg			
Couple mean	WCDMA1900: 20±2DB(1930-1990)			
VSWR	≤1.25			
Impedance	50 Ω			
Working Temperature	-40°C to +65°C			
Relative humidity	0-95%			
Ingress protection	IP55			
Dimension	178*130*90mm			
Weight	≤2.5Kg			
Connector	SMA-F			

Sketch Diagram:



8in 4out POI	YRPOI-8-U/D-4-1
800MHz, 1800MHz, 2100MHz, 150dBc	

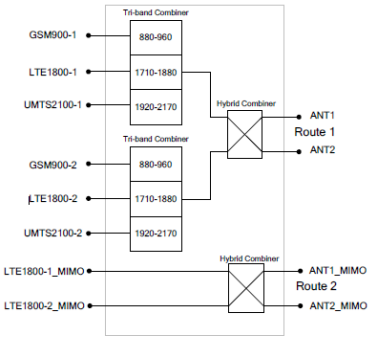
The POI is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product type	YRPOI-8-U/D-4-1
Frequency range	
900 band input ports	880 - 960MHz
1800 band input ports	1710 - 1880 MHz
2100 band input ports	1920 - 2170 MHz
Number of input ports	8 (900:2, 1800:2, 1800_MIMO:2,2100:2)
Number of output ports	4 (ANT1, ANT2, ANT1_MIMO, ANT2_MIMO)
Isolation between 2 input ports in the same band	≥20 dB
Isolation between 2 input ports in different bands	≥80 dB
Insertion loss	≤4.2dB/route1, ≤3.5dB/route2
Input return loss	≥18 dB
Max composite input power (per input port)	≥200 W
Inter-modulation	≤-150 dBc@2*43dBm
Impedance	50 ohm
Dimensions (W×H×D)	482mm*340mm*154mm
Weight	≤20Kg
Installation	Rack or wall mounted
RF Connecor	N-female
Operating temperature range	-20 to 55℃
Ingress Protection	IP40
Humidity	5-95%

Sketch Diagram:



20in 4out POI	YRPOI-20U-D4-1
Support 5operators' systems, 150dBc, 20input and 4output.	

The POI is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

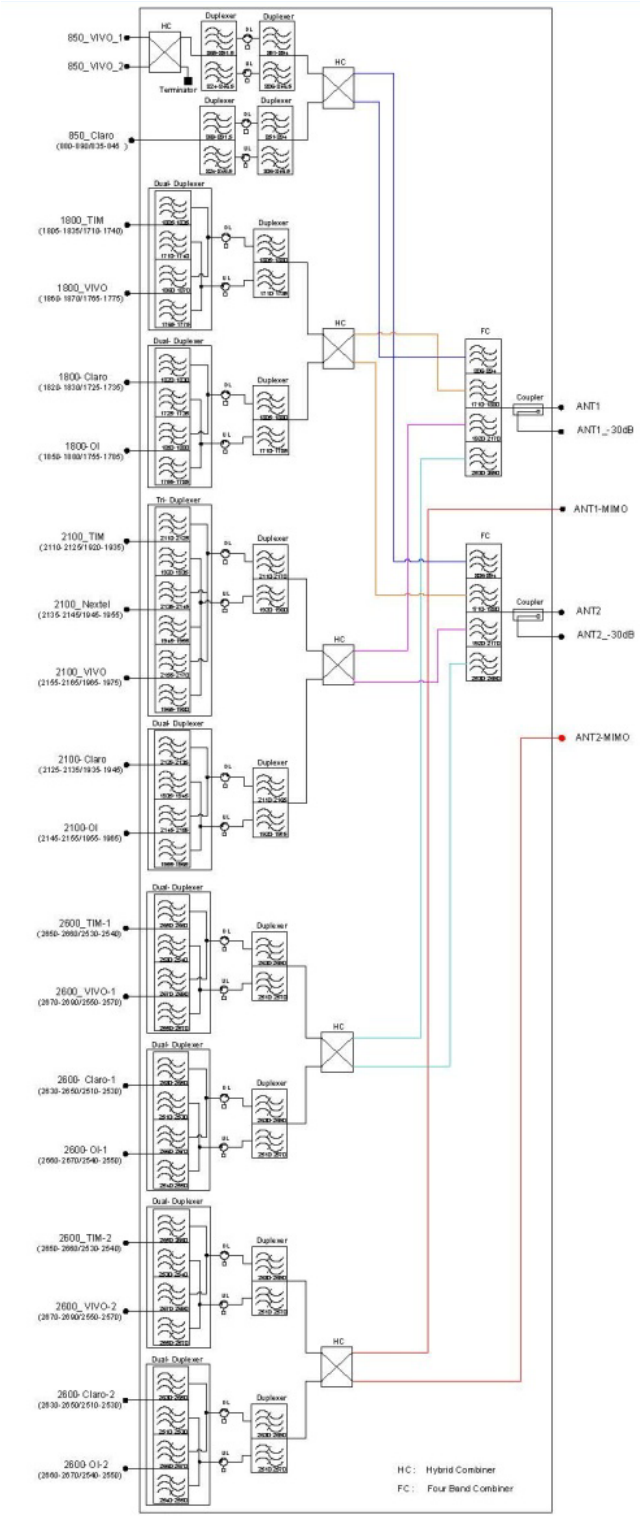
- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Input Port	System	Operator	Down link（MHz）	Up link（MHz）
1	UMTS850	VIVO	869-880/890-891.5	824-835/845-846.5
2		Claro	880-890	835-845
3	UMTS850	VIVO	869-880/890-891.5	824-835/845-846.5
4	GSM1800	TIM	1805-1820/1830-1835	1710-1725/1735-1740
5		Claro	1820-1830	1725-1735
6		OI	1885-1860/1870-1880	1755-1765/1775-1785
7		VIVO	1860-1870	1765-1775
8	UMTS2100	TIM	2110-2125	1920-1935
9		Claro	2125-2135	1935-1945
10		NEXTEL	2134-2145	1945-1955
11		OI	2145-2155	1955-1965
12		VIVO	2155-2165	1965-1975
13	LTE2600	Claro	2530-2650	2510-2530
14				
15		TIM	2550-2660	2530-2540
16				
17		OI	2560-2670	2540-2550
18				
19		VIVO	2570-2690	2550-2570
20				
Inter-modulation			≤-150dBc@43dBmx2	
Insertion loss			≤-6.5dB	
Isolation			Same band：≥50 dB；different band ≥70 dB	
Max. input power			100W	
VSWR			≤1.3	

Dimension	482×450×800 mm
Weight	≤50kg
Input port type	N-F
Output port type	Din-F
Port impendence	50ohm

Sketch Diagram:



2in 4out POI	YRPOI-2-U/D-4-N
1447-1467, 806-821 MHz/ 851-866MHz, 150dBc	

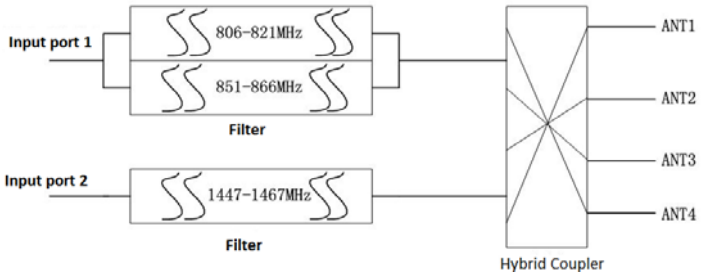
The POI is designed for provide low PIM and low insertion loss solutions for the multi standard or multi operators DAS system, suited for Indoor and outdoor environments.

- Low PIM
- Low insertion loss
- High rejection
- For indoor and outdoor applications

Specifications

Product number	YRPOI-2-U/D-4-N	
Frequency range	806-821/851-866 MHz(port1)	1447-1467MHz(band2)
Insertion loss	≤6.5dB	≤ 6.5dB
Output port number	4	
Rejection	≥ 60dB@1447～1467MHz	≥ 60dB@806～821MHz ≥ 60dB@851～866MHz
Isolation	≥ 80dB	
Power capacity	200 W Avg	
Inter-modulation	≤ -150dBc(+43dBm*2)	
VSWR	≤1.3	
Impedance	50 Ω	
MTBF	>100,000 hours	
Operating temperature	-40°C to +65°C	
Storing temperature	-40°C to +85°C	
Relative humidity	0-95%	
Ingress protection	IP67	
Dimension	290.5mm*271mm*70mm	
Weight	≤4Kg	
Connector	N -Female	

Sketch Diagram:



Notes: Support any kind of POI customized, 150dBc/160dBc, N/DIN type option.