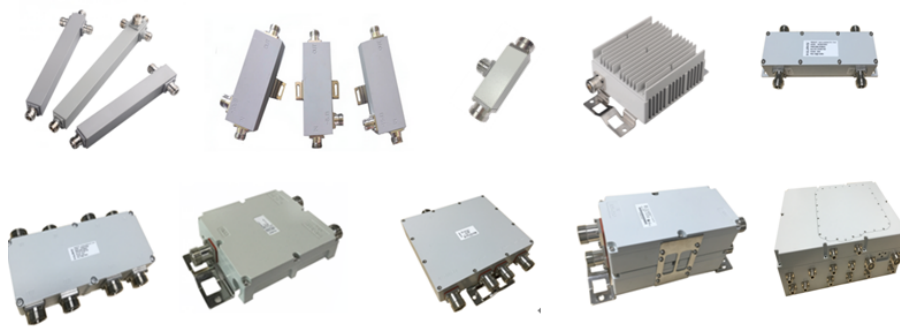


DAS/BTS PASSIVE COMPONENTS CATALOGUE



HILINKS TECHNOLOGY CO.,LTD.

- Wide-band design, cover 698 - 2700MHz
- Low PIM
- Compact size, light weight



Electrical Specifications			
Model Name (N)	XMSP0727N2650	XMSP0727N3650	XMSP0727N4650
Model Name (7/16 DIN)	XMSP0727D2650	XMSP0727D3650	XMSP0727D4650
Model Name (4.3-10 DIN)	XMSP0727M2650	XMSP0727M3650	XMSP0727M4650
Frequency Range (MHz)	698-2700		
Channel	2 Way	3 Way	4 Way
Distribution Loss(dB)	3.0	4.8	6.0
Insertion Loss (dB)	≤0.3	≤0.4	≤0.5
VSWR	≤1.25 (1.2 typ)		
PIM3 (@2x43 dBm Carrier) (dBc)	< -150		
Input Average Power (W)	≤300		
Peak Power (W)	≤1200		
Impedance (Ω)	50		

Mechanical Specifications			
Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	186x25x25 / 7.3x1.0x1.0	186x25x25 / 7.3x1.0x1.0	213x25x25 / 8.3x1.0x1.0
Weight (including connectors and mounting bracket) (kg) / (lb)	0.5 / 1.1		
Connector Type	N Female; 7/16 DIN Female ; 4.3-10 DIN Female		
Color	Gray		
Mounting	Wall Mounted		
Operational Temperature (°C)	-30 °C ~ +65 °C		
Operational Humidity (%)	≤95		
Ingress Protection Class	IP65 (Indoor and Outdoor)		

Outline Drawing (N Type)	
2 Way	
3 Way	
4 Way	

- Wide-band design, cover 698 - 2700MHz
- Low PIM
- Compact size, light weight



Electrical Specifications			
Model Name (N)	XMSP0727N2450	XMSP0727N3450	XMSP0727N4450
Model Name (7/16 DIN)	XMSP0727D2450	XMSP0727D3450	XMSP0727D4450
Frequency Range (MHz)	698-2700		
Channel	2 Way	3 Way	4 Way
Distribution Loss(dB)	3.0	4.8	6.0
Insertion Loss (dB)	≤0.3	≤0.4	≤0.5
VSWR	≤1.25		
PIM3 (@2x43 dBm Carrier) (dBc)	< -150		
Input Average Power (W)	≤ 200		
Peak Power (W)	≤1000		
Impedance (Ω)	50		

Mechanical Specifications			
Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	199x25x25 / 7.8x1.0x1.0	234x25x25 / 9.2x1.0x1.0	234x25x25 / 9.2x1.0x1.0
Weight (including connectors and mounting bracket) (kg) / (lb)	0.5 / 1.1		
Connector Type	N Female / 7/16 DIN Female		
Color	Gray		
Operational Temperature (°C)	-30 to +65		
Operational Humidity (%)	≤95		
Ingress Protection Class	IP40 (Indoor)		

Outline Drawing	
2 Way	
3 Way	
4 Way	

- Wide-band design, cover 698-2700MHz
- Low PIM



Electrical Specifications					
Model Name (N)	XMCP0727N05 50	XMCP0727N06 50	XMCP0727N07 50	XMCP0727N10 50	XMCP0727N15 50
Model Name (7/16 DIN)	XMCP0727D05 50	XMCP0727D06 50	XMCP0727D07 50	XMCP0727D10 50	XMCP0727D15 50
Model Name (4.3/10 DIN)	XMCP0727M05 50	XMCP0727M06 50	XMCP0727M07 50	XMCP0727M10 50	XMCP0727M15 50
Frequency Range (MHz)	698-2700				
Coupling Value (dB)	5	6	7	10	15
Coupling Tolerance (dB)	±0.8	±0.8	±0.8	±1.0	±1.0
Insertion Loss	≤2.15	≤1.76	≤1.47	≤0.96	≤0.44
Isolation(dB)	≥23	≥24	≥25	≥28	≥33

Electrical Specifications					
Model Name (N)	XMCP0727N20 50	XMCP0727N25 50	XMCP0727N30 50	XMCP0727N35 50	XMCP0727N40 50
Model Name (7/16 DIN)	XMCP0727D20 50	XMCP0727D25 50	XMCP0727D30 50	XMCP0727D35 50	XMCP0727D40 50
Model Name (4.3/10 DIN)	XMCP0727M20 50	XMCP0727M25 50	XMCP0727M30 50	XMCP0727M35 50	XMCP0727M40 50
Frequency Range (MHz)	698-2700				
Coupling Value (dB)	20	25	30	35	40
Coupling Tolerance (dB)	±1.0	±1.0	±1.5	±1.5	±1.5
Insertion Loss	≤0.34	≤0.3	≤0.3	≤0.3	≤0.3
Isolation(dB)	≥38	≥43	≥48	≥48	≥55
VSWR	≤1.25 (1.2 typ)				
PIM3 (@2x43 dBm Carrier) (dBc)	<-150				
Input Average Power (W)	≤300				
Peak Power (W)	≤1200				
Impedance (Ω)	50				

Mechanical Specifications	
Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	120x42x26 / 4.7x1.7x1.0
Weight (including connectors and mounting bracket) (kg) / (lb)	0.35 / 0.8
Connector Type	N Female; 7/16 DIN Female ; 4.3-10 DIN Female
Color	Gray
Mounting	Wall Mounted
Operational Temperature (°C)	-40 to +65
Operational Humidity (%)	≤95
Ingress Protection Class	IP65 (Indoor and Outdoor)

Outline Drawing(N type)	

Tapper

- Wide-band design, cover 350-1400&1710-2700MHz
- Low PIM
- Compact size, light weight



Electrical Specifications

Model Name (N)	XMTP0327N0350	XMTP0327N0550	XMTP0327N0650	XMTP0327N0850
Model Name (7/16DIN)	XMTP0327D0350	XMTP0327D0550	XMTP0327D0650	XMTP0327D0850
Model Name (4.3/10 DIN)	XMTP0327M0350	XMTP0327M0550	XMTP0327M0650	XMTP0327M0850
Frequency Range (MHz)	350-1400&1710-2700			
Output Power Split Ratio(dB)	2:1/3.0	3:1/4.8	4:1/6.0	6:1/8.0
Tap Loss(dB)	J3/J2 → J1(dB)	-1.8 / -4.8	-1.3 / -6.1	-1.0 / -7.0
	Coupling Tolerance (dB)	±0.8	±0.7	±0.7
Return Loss(dB)	350-1400MHz	16	17	18
	1710-2700MHz	20	20	20
PIM3 (@2x43 dBm Carrier) (dBc)	< -150			
Input Average Power (W)	≤300			
Peak Power (W)	≤1000			
Impedance (Ω)	50			

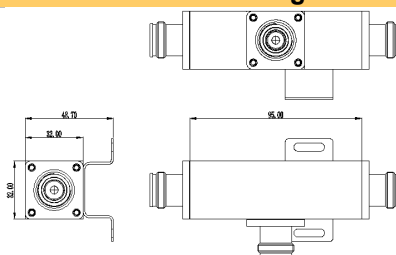
Electrical Specifications

Model Name (N)	XMTP0327N1050	XMTP0327N1350	XMTP0327N1550	XMTP0327N2050
Model Name (7/16DIN)	XMTP0327D1050	XMTP0327D1350	XMTP0327D1550	XMTP0327D2050
Model Name (4.3/10 DIN)	XMTP0327M1050	XMTP0327M1350	XMTP0327M1550	XMTP0327M2050
Frequency Range (MHz)	350-1400&1710-2700			
Output Power Split Ratio(dB)	10:1/10	20:1/13	30:1/15	100:1/20
Tap Loss(dB)	J3/J2 → J1(dB)	-0.4 / -10.4	-0.2 / -13.2	-0.1 / -15.1
	Tolerance (dB)	±1.0	±1.0	±1.25
Return Loss(dB)	350-1400MHz	20	21	21
	1710-2700MHz	20	20	21
PIM3 (@2x43 dBm Carrier) (dBc)	<-150			
Input Average Power (W)	N type ≤300 ; 7/16 DIN type ≤500 ; 4.3/10 DIN ≤ 500			
Peak Power (W)	≤1200			
Impedance (Ω)	50			

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	95x32x32 / 3.7x1.3x1.3
Weight (including connectors and mounting bracket) (kg) / (lb)	0.55 / 1.2
Connector Type	N Female; 7/16 DIN Female ; 4.3-10 DIN Female
Color	Gray
Mounting	Wall Mounted
Operational Temperature (°C)	-40 to +65
Operational Humidity (%)	≤95
Ingress Protection Class	IP67 (Indoor and Outdoor)

Outline Drawing



Hilinks

Hybrid Combiner

- 2 in 2 out hybrid combiner
- Wide-band design, cover 698-2700MHz
- Low PIM, high isolation

Product Specification



Electrical Specifications			
Model Name	XMHC0727N2250	XMHC0727D2250	XMHC0727M2250
Frequency Range (MHz)	698-2700		
Insertion Loss (dB)	3±0.5		
Passband Ripple(dB)	≤0.5		
VSWR	≤1.25		
Isolation(dB)	≥30		
PIM3 (@2x43 dBm Carrier) (dBc)	< -150		
Input Average Power (W)	≤300		
Peak Power (W)	≤1000		
Impedance (Ω)	50		

Mechanical Specifications			
Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	160x42x42 / 6.2x1.7x1.7		
Weight (including connectors and mounting bracket) (kg) / (lb)	0.4 / 0.9	0.55 / 1.2	0.55 / 1.2
Connector Type	N-Female	7/16 DIN-Female	4.3-10 Female
Color	Gray		
Mounting	Wall Mounted		
Operational Temperature (°C)	-40 to +65		
Operational Humidity (%)	≤95		
Ingress Protection Class	IP65 (Indoor and Outdoor)		

Outline Drawing		
XMHB27N5001	XMHB27D5005	XMHB27M5011

HiLINKS

Hybrid Combiner

- 4 in 4 out hybrid combiner
- Wide-band design, cover 698-2700MHz
- Low PIM, high isolation

Product Specification



Electrical Specifications

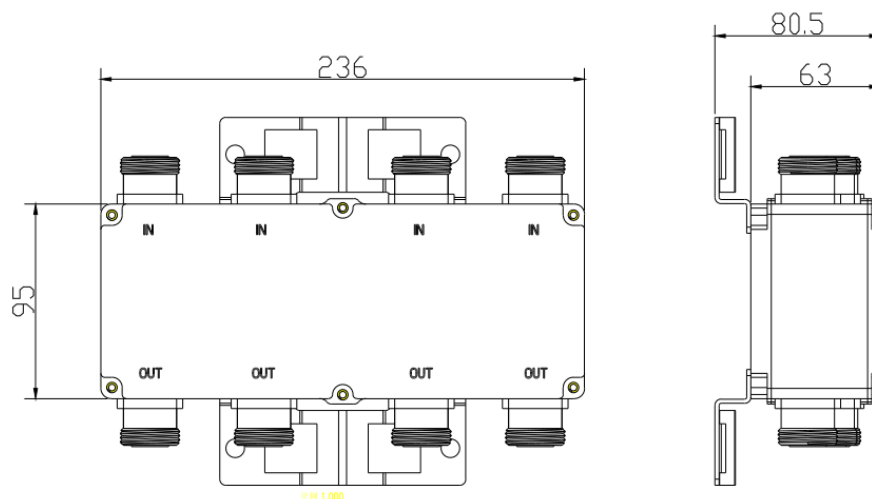
Model Name	XMHC0727N4450	XMHC0727D4450	XMHC0727M4450
Frequency Range (MHz)	698-2700		
Insertion Loss (dB)	6 ±0.8		
VSWR	≤1.25		
Isolation(dB)	≥30		
PIM3 (@2x43 dBm Carrier) (dBc)	<-155		
Input Average Power (W)	≤300		
Peak Power (W)	≤1000		
Impedance (Ω)	50		

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	236x95x64 / 9.3x3.7x2.5		
Weight (including connectors and mounting bracket) (kg) / (lb)	3 / 6.6	3.5 / 7.7	3.5 / 7.7
Connector Type	N-Female	7/16 DIN-Female	4.3-10 Female
Color	Gray		
Mounting	Wall Mounted		
Operational Temperature (°C)	-40 to +65		
Operational Humidity (%)	≤95		
Ingress Protection Class	IP66 (Indoor and Outdoor)		

Outline Drawing

(DIN type)





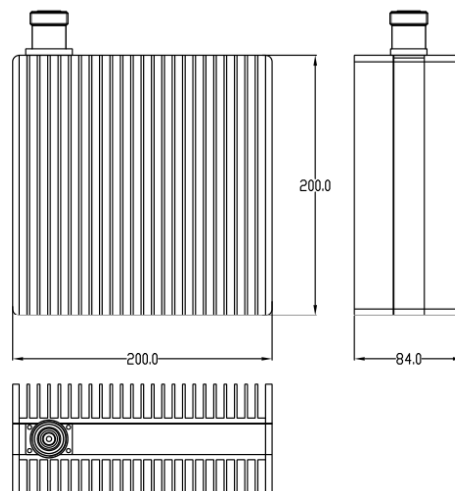
Electrical Specifications

Model Name (N)	XMTL025NF450	XMTL050NF450	XMTL100NF450	XMTL200NF450
Model Name (7/16 DIN)	XMTL025DF450	XMTL050DF450	XMTL100DF450	XMTL200DF450
Model Name (4.3/10 DIN)	XMTL025MF450	XMTL050MF450	XMTL100MF450	XMTL200MF450
Frequency Range (MHz)	698 - 2700Mhz			
VSWR	≤1.2 typ 1.25 max			
PIM3 (@2x43 dBm Carrier) (dBc)	<-150			
Maximum Power Per Port (W)	25	50	100	200
Impedance (Ω)	50			

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm)	< 200 x 200 x 100			
Weight (including connectors and mounting bracket) (kg)	3 ~ 5 kg			
Connector Type	N / 7/16DIN / 3.4-10DIN (Female Or Male)			
Color	Gray			
Mounting	Wall Mounted			
Operational Temperature (°C)	-20 to +65			
Operational Humidity (%)	≤95			
Ingress Protection Class	IP40 (Indoor)			

Outline Drawing (Reference Pics)



HiLINKS

Dual-band Combiner

Product Specification

- Port1: 380~960 MHz; Port2: 1710-2700 MHz
- No preconfigured DC by pass



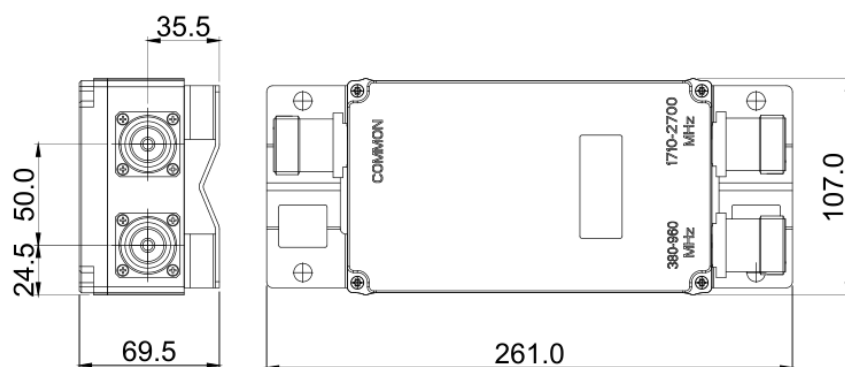
Electrical Specifications

Model Name	XMCB032D501	
Frequency Range (MHz)	380~960	1710-2700
Insertion Loss (dB)	≤0.25 @ 380~960MHz ≤ 0.35 @ 1710-2700MHz	
Isolation (dB)	≥50	
VSWR	≤ 1.22 typ , 1.25 max	
PIM3 (@2x43 dBm Carrier) (dBc)	<-150	
DC by Pass/AISG Transparency	Pass	
Avg Power Per Port (W)	200	
Peak Power Per Port (W)	1000	
Impedance (Ω)	50	

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	180x107x55(Single Unit) / 7.0x4.2x2.1 180x107x125(Double Unit) / 7.0x4x4.9
Weight (including connectors and mounting bracket) (kg) / (lb)	1.95(Single Unit) / 4.3
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-40~+65
Operational Humidity (%)	≤95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20μs,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



Dual-band Combiner

- Port1: 1710-188 MHz; Port2: 1920-2170 MHz
- No preconfigured DC by pass



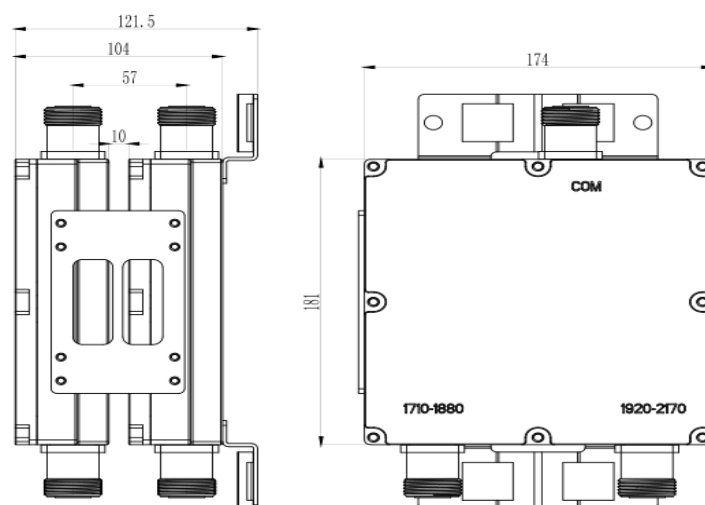
Electrical Specifications

Model Name	XMCB122D501	
Frequency Range (MHz)	1710-1880	1920-2170
Insertion Loss (dB)	≤ 0.25 @1710-1880MHz ≤ 0.5 @1920-2170MHz	
Isolation (dB)	≥ 50	
VSWR	≤ 1.22 typ, 1.25 max	
PIM3 (@2x43 dBm Carrier) (dBc)	<-155 typ, -150 max	
DC by Pass/AISG Transparency	Pass	
Avg Power Per Port (W)	200	
Peak Power Per Port (W)	1000	
Impedance (Ω)	50	

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	181 x 174 x52 (Single Unit) / 7.1x6.8x2.0
Weight (including connectors and mounting bracket) (kg) / (lb)	2.5/ 5.5
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for $\Phi 35$ -125mm pole) or Wall Mounted
Operational Temperature ($^{\circ}\text{C}$)	-40~+65
Operational Humidity (%)	≤ 95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20 μs ,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



Dual-band Combiner

- Port1: 1710-1880MHz; Port2: 1920-2170&2300-2690 MHz
- Low PIM

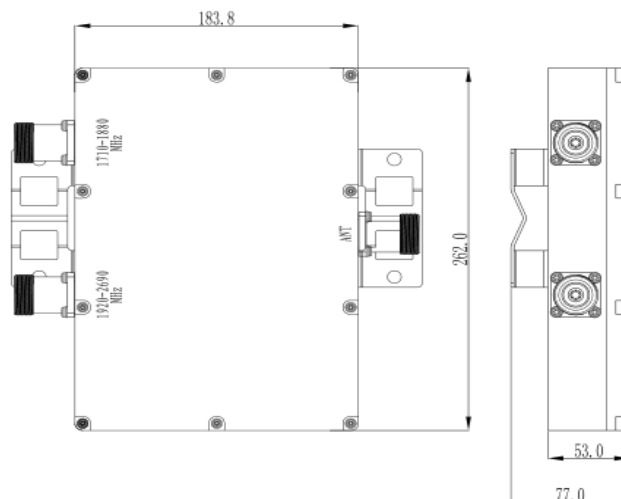
Electrical Specifications

Model Name	XMCB132D501	
Frequency Range (MHz)	1710-1880	1920-2170&2300-2690
Insertion Loss (dB)	≤0.35	
Isolation (dB)	≥50	
VSWR	≤ 1.22 typ , 1.25 max	
PIM3 (@2x43 dBm Carrier) (dBc)	<-150	
DC by Pass/AISG Transparency	Pass	
Avg Power Per Port (W)	250	
Peak Power Per Port (W)	1000	
Impedance (Ω)	50	

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	183x262x53 / 7.2x10.3x2.0
Weight (including connectors and mounting bracket) (kg) / (lb)	3 / 6.6
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-40~+65
Operational Humidity (%)	≤95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20μs,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



Dual-band Combiner

- Port1: 1710-2170MHz; Port2: 2300-2690 MHz
- Low PIM



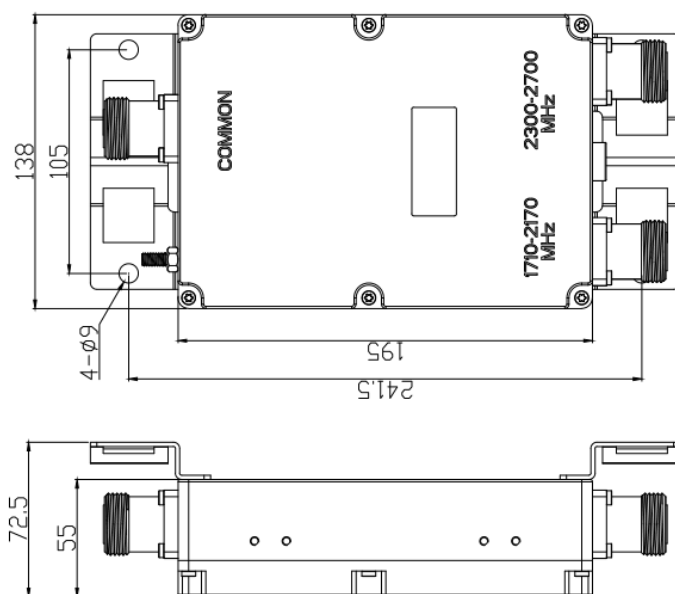
Electrical Specifications

Model Name	XMCB132D511	
Frequency Range (MHz)	1710-2170	2300-2690
Insertion Loss (dB)	≤ 0.4	
Isolation (dB)	≥ 50	
VSWR	≤ 1.22 typ , 1.25 max	
PIM3 (@2x43 dBm Carrier) (dBc)	<-150	
DC by Pass/AISG Transparency	Pass	
Avg Power Per Port (W)	200	
Peak Power Per Port (W)	1000	
Impedance (Ω)	50	

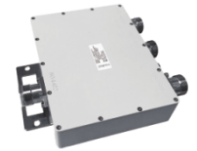
Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	195x138x55 / 7.6x5.4x2.2
Weight (including connectors and mounting bracket) (kg) / (lb)	4 / 8.8
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for $\Phi 35$ -125mm pole) or Wall Mounted
Operational Temperature ($^{\circ}\text{C}$)	-40~+65
Operational Humidity (%)	≤ 95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20 μs , 20kA; 10/350 μs pulse, 3 kA Port ANT

Outline Drawing



Triple-Band Combiner



- Port1: 698-960MHz; Port2: 1710-1880 MHz ; Port3: 1920-2170 MHz
- Low PIM

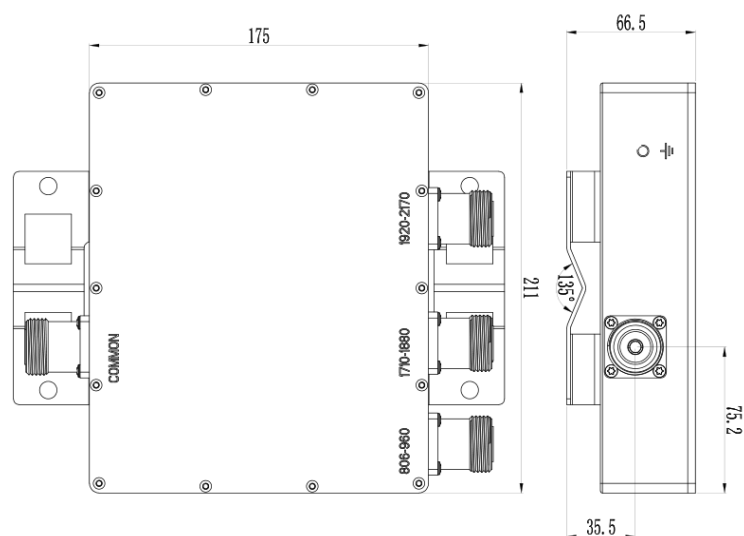
Electrical Specifications

Model Name	XMCB0113D501		
Frequency Range (MHz)	698-960	1710-1880	1920-2170
Insertion Loss (dB)	$\leq 0.25@698-960$ MHz $\leq 0.35@1710-1880$ MHz $\leq 0.35@1920-2170$ MHz		
Isolation (dB)	≥ 50		
VSWR	≤ 1.22 typ , 1.25 max		
PIM3 (@2x43 dBm Carrier) (dBc)	<-150		
DC by Pass/AISG Transparency	Pass		
Avg Power Per Port (W)	300		
Peak Power Per Port (W)	1200		
Impedance (Ω)	50		

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	211 x175 x 66.5 / 8.3x6.8x2.6
Weight (including connectors and mounting bracket) (kg) / (lb)	2.75 / 6.0
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for $\Phi 35-125$ mm pole) or Wall Mounted
Operational Temperature ($^{\circ}\text{C}$)	-40~+65
Operational Humidity (%)	≤ 95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20 μs ,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



Triple-Band Combiner

- Port1: 1710-1780MHz; Port2: 1920-2170 MHz ; Port3: 2500-2690 MHz
- Low PIM

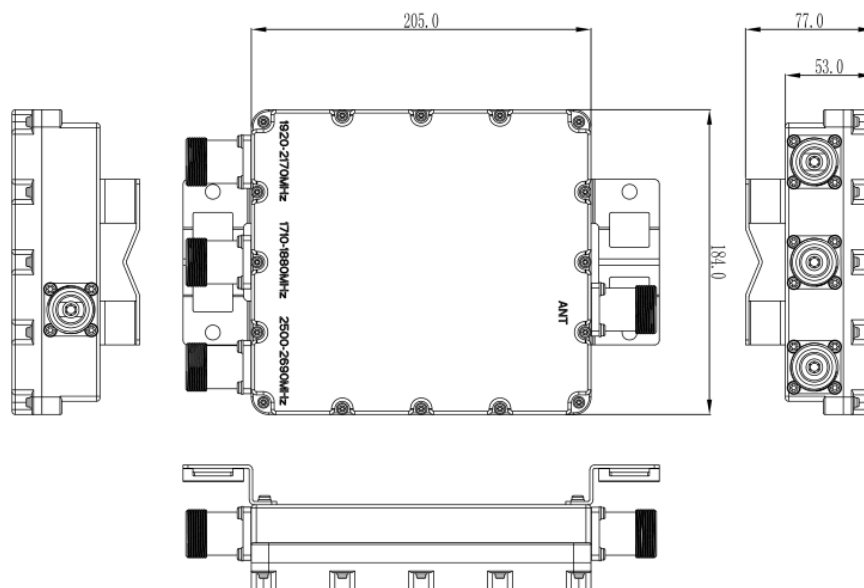
Electrical Specifications

Model Name (7/16 DIN)	XMCB1133D501		
Frequency Range (MHz)	1710-1880	1920-2170	2500-2690
Insertion Loss (dB)	≤ 0.5		
Isolation (dB)	≥ 80		
VSWR	≤ 1.22 typ , 1.25 max		
PIM3 (@2x43 dBm Carrier) (dBc)	-150		
DC by Pass/AISG Transparency	Pass		
Avg Power Per Port (W)	200		
Peak Power Per Port (W)	1000		
Impedance (Ω)	50		

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	205 x184 x 53 / 8.0x7.2x2.0
Weight (including connectors and mounting bracket) (kg) / (lb)	3.5 / 7.7
Connector Type	DIN-Female
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-40~+65
Operational Humidity (%)	≤95
Ingress Protection Class	IP66 (Indoor and Outdoor)
Lightning Protection	8/20μs,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



HILINKS

Triple-Band Combiner

Product Specification

- Port1: 1710-1780&2110-2180MHz; Port2: 1850-1990 MHz ; Port3: 2496-2690 MHz
- Low PIM

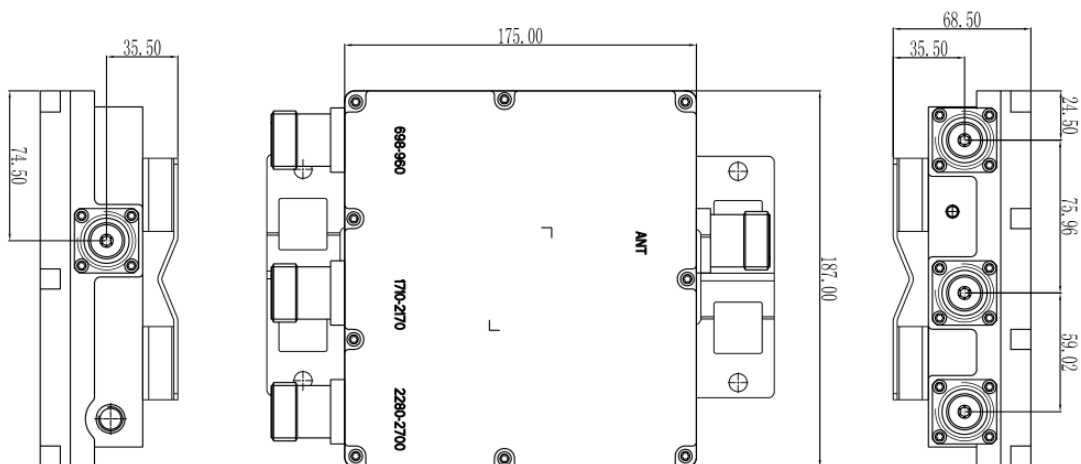
Electrical Specifications

Model Name	XMCB0133D501		
Frequency Range (MHz)	790-960	1710-2170	2270-2400&2500-2700
Insertion Loss (dB)	$\leq 0.5@790-960$ MHz $\leq 0.5@1710-2170$ MHz $\leq 0.5@2270-2400\&2500-2700$ MHz		
Isolation (dB)	≥ 50		
VSWR	≤ 1.22 typ , 1.25 max		
PIM3 (@2x43 dBm Carrier) (dBc)	<-150		
DC by Pass/AISG Transparency	Pass		
Avg Power Per Port (W)	300		
Peak Power Per Port (W)	1200		
Impedance (Ω)	50		

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	187 x175 x 50 / 7.3x6.9x2
Weight (including connectors and mounting bracket) (kg) / (lb)	3 / 6.6
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for $\Phi 35-125$ mm pole) or Wall Mounted
Operational Temperature ($^{\circ}\text{C}$)	-40~+65
Operational Humidity (%)	≤ 95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20 μs ,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



HiLINKS

Quad-Band Combiner

Product Specification



- Port1: 380-960MHz; Port2: 1710-1880MHz ; Port3: 1920-2200MHz; Port4: 2500-2690 MHz
- Low PIM

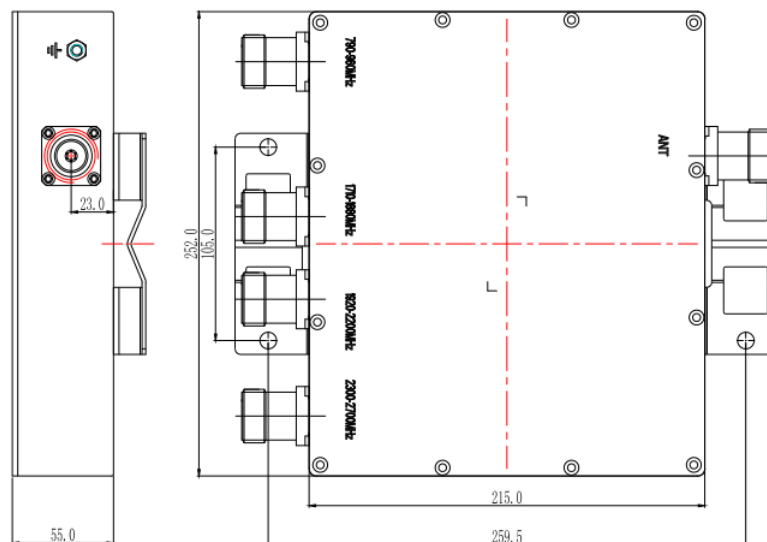
Electrical Specifications

Model Name	XMCB01134D501			
Frequency Range (MHz)	380-960	1710-1880	1920-2200	2500-2690
Insertion Loss (dB)	$\leq 0.2@380-960\text{MHz}$ $\leq 0.3@1710-1880\text{MHz}$ $\leq 0.3@1920-2200\text{MHz}$ $\leq 0.2@2500-2690\text{MHz}$			
Isolation (dB)	≥ 50			
VSWR	≤ 1.22 typ , 1.25 max			
PIM3 (@2x43 dBm Carrier) (dBc)	<-150			
DC by Pass/AISG Transparency	Pass			
Avg Power Per Port (W)	300			
Peak Power Per Port (W)	1200			
Impedance (Ω)	50			

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	252 x 215 x55 / 9.9 x8.5x2.1
Weight (including connectors and mounting bracket) (kg) / (lb)	5.1 / 11.2
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for $\Phi 35-125\text{mm}$ pole) or Wall Mounted
Operational Temperature ($^{\circ}\text{C}$)	-40~+65
Operational Humidity (%)	≤ 95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20 μs ,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



Penta-Band Combiner

- Port1: 698-960MHz; Port2: 1710-1880MHz ; Port3: 1920-2170 MHz;
- Port4: 2300-2390 MHz; Port5: 2500-2690 MHz
- Low PIM



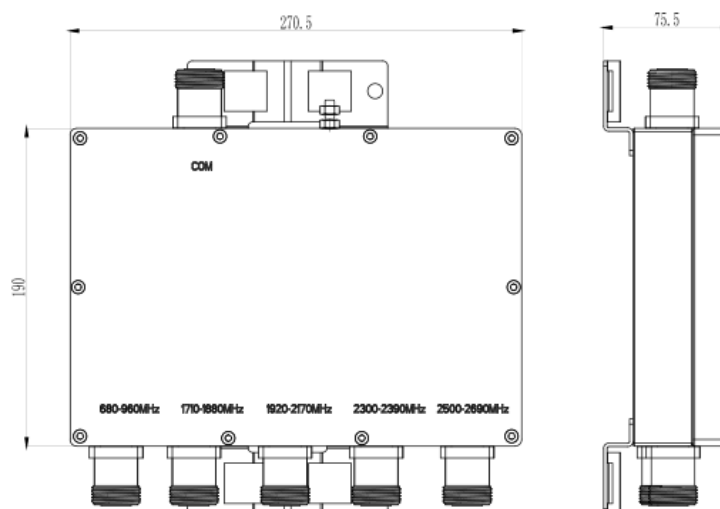
Electrical Specifications

Model Name	XMCB011335D501				
Frequency Range (MHz)	698-960	1710-1880	1920-2170	2300-2390	2500-2690
Insertion Loss (dB)	≤ 0.5				
Isolation (dB)	≥50				
VSWR	≤ 1.22 typ , 1.25 max				
PIM3 (@2x43 dBm Carrier) (dBc)	<-150				
DC by Pass/AISG Transparency	Pass				
Avg Power Per Port (W)	300				
Peak Power Per Port (W)	1200				
Impedance (Ω)	50				

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	270.5 x 190 x 55 / 10.6 x 7.4 x 2.1
Weight (including connectors and mounting bracket) (kg) / (lb)	4.1 / 9
Connector Type	7/16 DIN-Female
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-40~+65
Operational Humidity (%)	≤95
Ingress Protection Class	IP67 (Indoor and Outdoor)
Lightning Protection	8/20μs, 20kA; 10/350 μs pulse, 3 kA Port ANT

Outline Drawing



Filter

- High Attenuation
- Low Insertion Loss

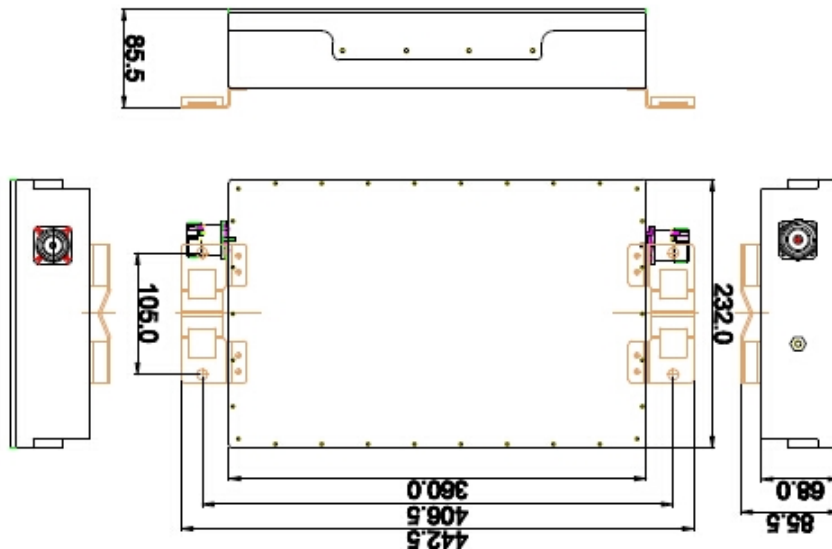
Electrical Specifications

Model Name	XMFT09D5001
Frequency Range (MHz)	895-915 935-960
Insertion Loss (dB)	895.0-897.5MHz≤3.0 897.5-898.5 MHz≤1.1 898.5-960 MHz≤0.5
Stop Band Attenuation(dB)	≥45@800-894MHz
VSWR	≤ 1.25
PIM3 (@2x43 dBm Carrier) (dBc)	<-150
Maximum Power Per Port (W)	Average Power≤ 250, Peak Power≤1000
Impedance (Ω)	50

Mechanical Specifications

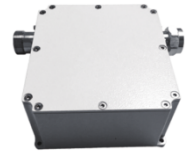
Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	360 x 225 x 71
Weight (including connectors and mounting bracket) (kg) / (lb)	6
Connector Type	ANT:7/16 DIN (F) BTS:7/16DIN (M)
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-40~+65
Operational Humidity (%)	≤95
Ingress Protection Class	IP65(Indoor and Outdoor)

Outline Drawing



Filter

- High Attenuation
- Low Insertion Loss



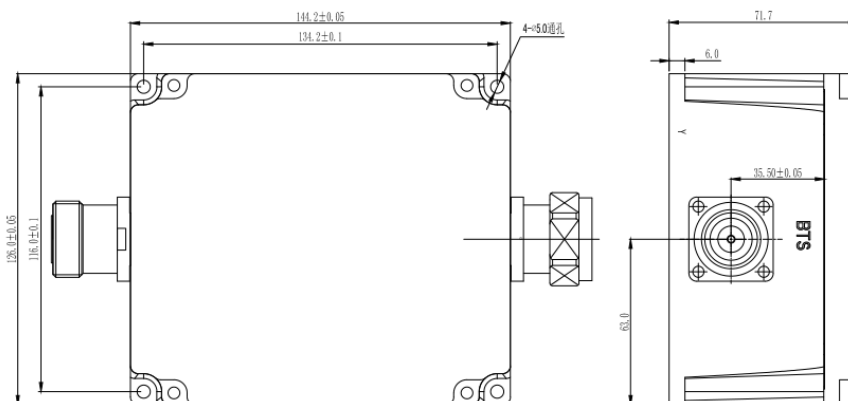
Electrical Specifications

Model Name	XMFT09D5010
Frequency Range (MHz)	889-909 934-954
Insertion Loss (dB)	≤0.7 @889-909 MHz ≤0.5 @934-954 MHz
Stop Band Attenuation(dB)	≥60@870-880MHz
VSWR	≤ 1.2
PIM3 (@2x43 dBm Carrier) (dBc)	<-155
Maximum Power Per Port (W)	Average Power≤ 500, Peak Power≤1500
Impedance (Ω)	50

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	148x137x69 / 5.8x5.3x2.7
Weight (including connectors and mounting bracket) (kg) / (lb)	3 / 6.6
Connector Type	ANT:7/16 DIN(F) BTS:7/16DIN(M)
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-40~+65
Operational Humidity (%)	≤95
Ingress Protection Class	IP65(Indoor and Outdoor)

Outline Drawing



Filter

- High Attenuation
- Low Insertion Loss



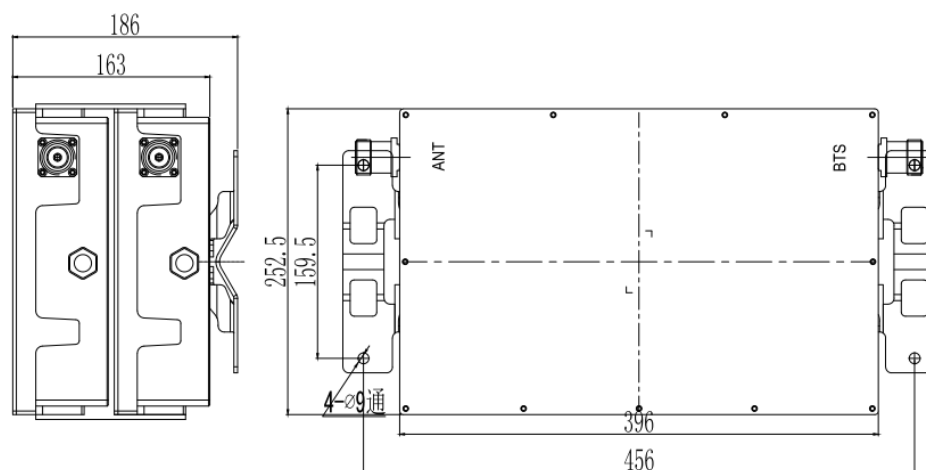
Electrical Specifications

Model Name	XMFT09D5011
Frequency Range (MHz)	895-905 940-950
Insertion Loss (dB)	≤ 1.5 @895-896.5MHz ≤ 0.6 @896.5-905MHz ≤ 0.5 @ 940-950MHz
Stop Band Attenuation(dB)	≥ 45 @≤894MHz
VSWR	≤ 1.2
PIM3 (@2x43 dBm Carrier) (dBc)	<-155
Maximum Power Per Port (W)	Average Power≤200
Impedance (Ω)	50

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	396 x253 x163 / 15.6x9.9x6.4
Weight (including connectors and mounting bracket) (kg) / (lb)	13.5 /29.7
Connector Type	7/16 DIN(F)
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-10 to +65
Operational Humidity (%)	≤95
Ingress Protection Class	IP65(Indoor and Outdoor)

Outline Drawing



Filter

- High Attenuation
- Low Insertion Loss



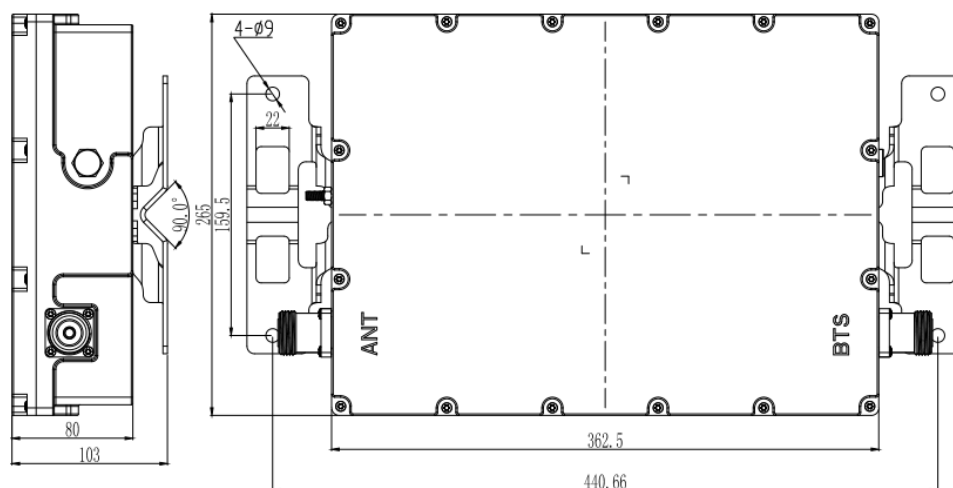
Electrical Specifications

Model Name	XMFT09D5015
Frequency Range (MHz)	824-849 869-894
Insertion Loss (dB)	≤0.5 @ 824-849MHz ≤0.65 @ 869-892.5MHz ≤1.3 @ 892.5-893.5MHz ≤2.2 @ 893.5-894MHz
Stop Band Attenuation(dB)	≥ 53 @ ≥ 895-915MHz
VSWR	≤ 1.2
PIM3 (@2x43 dBm Carrier) (dBc)	<-150
Maximum Power Per Port (W)	Average Power≤200
Impedance (Ω)	50

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	362.5 x 265 x80 / 14.3x10.4x3.1
Weight (including connectors and mounting bracket) (kg) / (lb)	8 / 17.6
Connector Type	7/16 DIN(F)
Color	Gray
Mounting	Pole (clamps included for Φ35-125mm pole) or Wall Mounted
Operational Temperature (°C)	-10 to +65
Operational Humidity (%)	≤95
Ingress Protection Class	IP65(Indoor and Outdoor)
Lightning Protection	8/20μs,20kA; 10/350 μs pulse,3 kA Port ANT

Outline Drawing



Duplexer

- RX: 885-915MHz; TX: 930-960MHz
- Low insertion loss
- High rejection and reliability



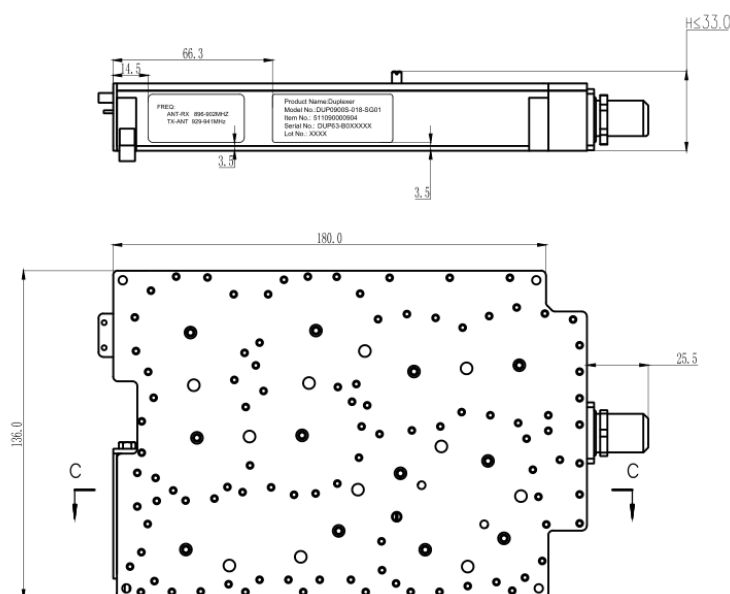
Electrical Specifications

Model Name	XMDP09D4004	
Channel	RX	TX
Frequency Range (MHz)	885-915	930-960
Insertion Loss(dB)	≤2.0 @885-915MHz	≤ 1.2 @930-960MHz
VSWR	≤1.2	
Rejection (dB)	≥ 75 @930-960MHz ≥ 65 @1700-2700MHz ≥ 60 @DC-849MHz ≥ 25 @870-882.5MHz ≥ 15 @925-1700MHz	≥ 85 @885-915MHz ≥ 65 @1700-2700MHz ≥ 60 @DC-882.5MHz ≥ 15 @915-920MHz ≥ 15 @970-1700MHz Hz
PIM3 (@2x43 dBm Carrier) (dBc)	<-150	
PIM5 (@2x43 dBm Carrier) (dBc)	<-160	
Avg Power Per Port (W)	80	
Impedance (Ω)	50	

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	196 x 135 x40 / 7.7 x 5.3 x 1.5
Weight (including connectors and mounting bracket) (kg) / (lb)	1.5 / 3.3
Connector Type	ANT: N(F) TX: SMA(F) RX:PIN
Color	Gray
Operational Temperature (°C)	-20~+60
Operational Humidity (%)	≤95
Ingress Protection Class	IP40

Outline Drawing



Duplexer

- RX: 1920-1980MHz; TX: 2110-2170MHz
- Low insertion loss
- High rejection and reliability

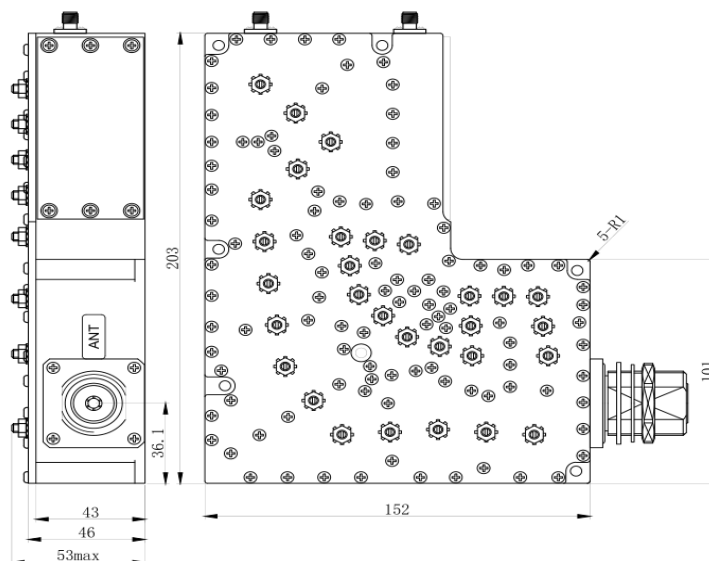
Electrical Specifications

Model Name	XMDP21D4006	
Channel	RX	TX
Frequency Range (MHz)	1920-1980	2110-2170
Insertion Loss (dB)	≤1.1 @1920-1980MHz	≤1.0 @2110-2170MHz
VSWR	≤1.2	
Rejection (dB)	≥ 80 @800-1000MHz ≥ 95 @2110-2170MHz ≥ 80 @1710-1880MHz ≥ 50 @1880-1900MHz ≥ 50 @2010-2025MHz ≥ 50 @1900-1910MHz ≥ 50 @1990-2110MHz	≥ 80 @800-1000MHz ≥ 100 @1920-1980MHz ≥ 80 @1710-1880MHz ≥ 80 @2010-2025MHz ≥ 15 @2010-2100MHz ≥ 15 @2180-2200MHz
PIM3 (@2x43 dBm Carrier) (dBc)	<-150	
PIM5 (@2x43 dBm Carrier) (dBc)	<-160	
Maximum Power Per Port (W)	80	
Impedance (Ω)	50	
DC By Pass	N/A	

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	203 x 152 x53 / 7.9 x 6.0 x 2
Weight (including connectors and mounting bracket) (kg) / (lb)	2.3 / 5
Connector Type	ANT: N(F) TX: SMA(M) RX:PIN
Color	Black
Operational Temperature (°C)	-20~+60
Operational Humidity (%)	≤95
Ingress Protection Class	IP40

Outline Drawing



- RX: 1920-1980MHz; TX: 2110-2170MHz
- Low insertion loss
- High rejection and reliability



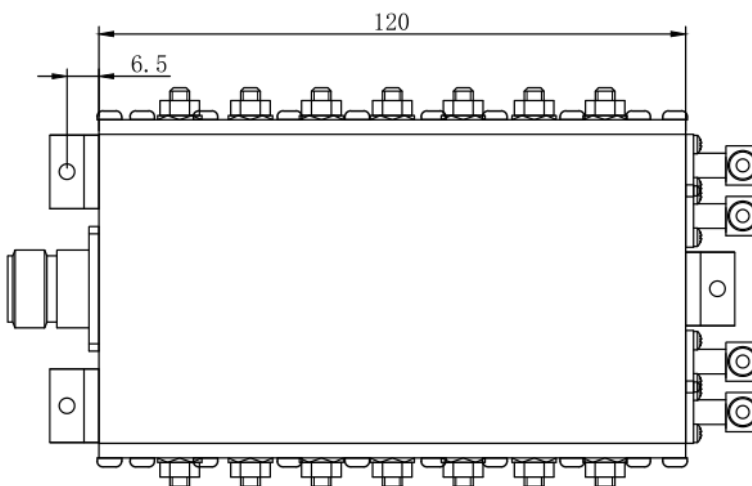
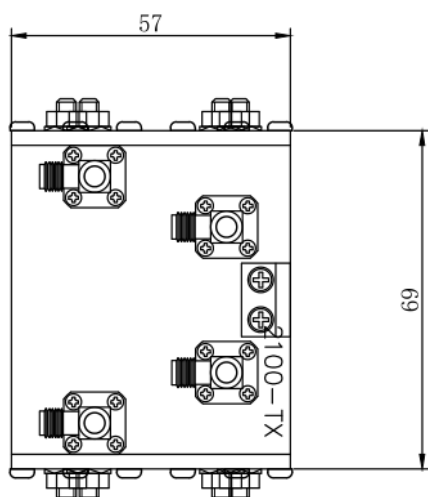
Electrical Specifications

Model Name	XMDP25D4007	
Channel	RX	TX
Frequency Range (MHz)	RX1: 2500-2570 RX2: 1920-1980	TX1: 2620-2690 TX2: 2110-2170
Insertion Loss (dB)	≤0.5 @2500-2570MHz ≤0.5 @1920-1980MHz	≤ 0.5 @2620-2690MHz ≤ 0.5 @2110-2170MHz
VSWR	≤1.2	
Rejection (dB)	RX1: ≥ 30 @2620-2690MHz RX2: ≥ 30 @2110-2170MHz	TX1: ≥ 30 @2500-2570MHz TX2: ≥ 30 @1920-1980MHz
PIM3 (@2x43 dBm Carrier) (dBc)	<-150	
PIM5 (@2x43 dBm Carrier) (dBc)	<-160	
Maximum Power Per Port (W)	60	
Impedance (Ω)	50	
DC By Pass	N/A	

Mechanical Specifications

Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	120 x69 x58 / 4.7 x 2.7 x 2.2
Weight (including connectors and mounting bracket) (kg) / (lb)	2.3 / 5
Connector Type	ANT: N(F) TX: SMA(F) RX:SMA(F)
Color	Black
Operational Temperature (°C)	-20~+60
Operational Humidity (%)	≤95
Ingress Protection Class	IP40

Outline Drawing



Multi System Combiner

XMPOI060201

- Combine systems of FDD 900,FDD1800,FDD2100,TDD2300,FDD2600,TDD2600
- Low insertion loss and PIM
- High isolation

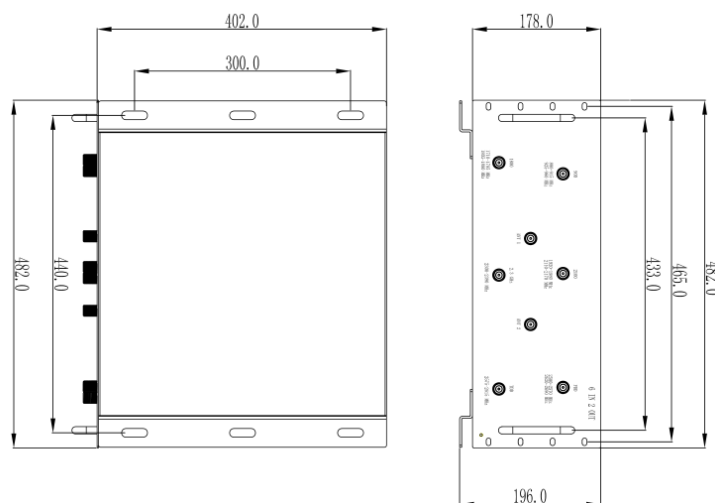
Electrical Specifications

Frequency Range (MHz)	FDD 900	880-915/925-960
	FDD1800	1710-1785/1805-1880
	FDD 2100	1920-1980/2110-2170
	TDD 2300	2300-2390
	FDD 2600	2500-2570/2620-2690
	TDD 2600	2575-2615
Insertion Loss (dB)	≤5.5	
Passband Ripple(dB)	≤2	
Isolation (dB)	ALL PORTS 80	
VSWR	≤1.3	
PIM3 (@2x43 dBm Carrier) (dBc)	≤-150	
Maximum Power Per Port (W)	≤200	
Peak Power (W)	≤1200	
Impedance (Ω)	50	

Mechanical Specifications

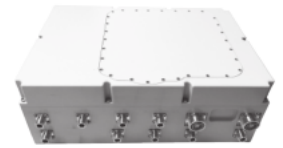
Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	402x482x196/ 15.8x18.9x7.7
Weight (including connectors and mounting bracket) (kg) / (lb)	20.0 / 39.7
Connector	N(F)
Color	Gray
Operational Temperature (°C)	-20 ~ +60
Operational Humidity (%)	5 ~ 98
Ingress Protection Class	IP40 (Indoor)

Outline Drawing (100W type)



Multi System Combiner XMPOI090204

- Combine systems of GSM900, GSM1800, TD-LTE(F), TD-LTE(E), CDMA800, TE FDD1.8G, LTE FDD2.1G, GSM1.8G, WCDMA
- Low insertion loss and PIM
- High isolation



Electrical Specifications			
Frequency Range (MHz)	CDMA800	820-835 / 865-880	
	GSM900	889-915 / 934-960	
	GSM1800	1710-1735 / 1805-1830	
	GSM1.8G	1735-1765 / 1830-1860	
	LTE FDD1.8G	1765-1785 / 1860-1880	
	TD-LTE(F)	1885-1915	
	LTE FDD2.1G	1920-1940 / 2110-2130	
	WCDMA	1940-1980 / 2130-2170	
	TD-LTE(E)	2320-2370	
Insertion Loss (dB)	≤5.0		
Passband Ripple(dB)	≤1.5		
Isolation (dB)	Isolation between Adjacent System	GSM1800 / GSM1.8G	≥25
		GSM1800 / LTE FDD1.8G	≥50
		GSM1.8G / LTE FDD1.8G	≥25
		WCDMA / LTE FDD2.1G	≥25
		LTE FDD1.8G / TD-LTE(F)	≥50
		LTE FDD2.1G / TD-LTE(F)	≥50
	Non-adjacent System	Others	≥80
VSWR	≤1.3		
PIM3 (@2x43 dBm Carrier) (dBc)	≤-150		
PIM5 (@2x43 dBm Carrier) (dBc)	≤-160		
Maximum Power Per Port (W)	≤200		
Peak Power (W)	≤1200		
Impedance (Ω)	50		

Mechanical Specifications	
Dimensions, HxWxD (excluding connectors and mounting bracket) (mm) / (in)	398x270x143 / 15.7x10.6x5.6
Weight (including connectors and mounting bracket) (kg) / (lb)	18.0 / 39.7
Number of Input Ports – Duplex	9 x 7/16 N-Female
Number of Output Ports - Duplex	2 x 7/16 DIN-Female
Color	Gray
Operational Temperature (°C)	-40 to +65
Operational Humidity (%)	5 ~ 98
Ingress Protection Class	IP65(Indoor and Outdoor)
Mounting	19' Rack