

## Antennas Combiner for Mobile Communications

Page	Type	Frequency Range (MHz)
<b>Dual Band Combiner and Repeater Duplexer</b>		
2	MY2-08-001-KG	824 – 849 869 – 894
3	MY2-0821-002-KG	824 – 894 1920 – 2170
4	MY2-0821-003-KG	819 – 960 1710 – 2170
5	MY2-0824-004-KG	824 – 894 1880 – 2400
6	MY2-0821-007-KG	824 – 894, 1920 – 2170 1710 – 1870
7	MY2-0821-008-KG	824 – 884, 1715 – 1870 1920 – 2170
8	MY2-0823-009-KG	824 – 884, 1715 – 1870 2300 – 2330
9	MY2-0823-010-KG	824 – 884, 1715 – 2330
10	MY2-1721-011-KG	1744.9 – 1859.9 1960 – 2170
<b>Triple Band Combiner</b>		
11	MY3-0824-005-KG	824 – 894 1920 – 2170 2300 – 2400
12	MY3-1721-006-KG	1710 – 1790 1805 – 1895 1920 – 2170
<b>Quad Band Combiner</b>		
13	MY4-0621-012-KG	698 – 787 806 – 894 1710 – 1755, 2110 – 2155 1850 – 1995
14	MY4-0623-013-KG	698 – 894 1695 – 1755, 2110 – 2180 1850 – 1990 2305 – 2360

Type **MY2-08-001-KG**

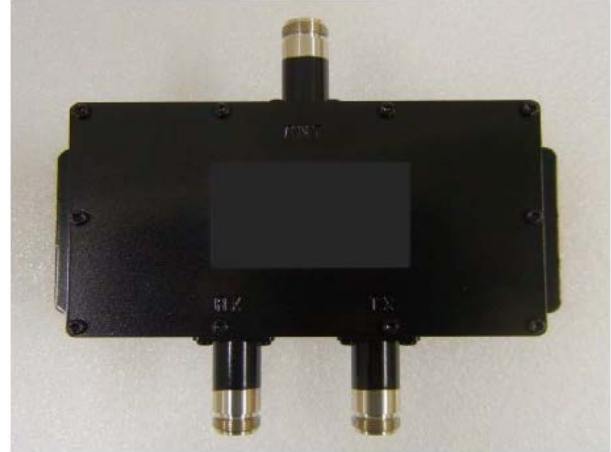
## Repeater Duplexer Repeater Duplexer 800 MHz

### Electrical Specifications

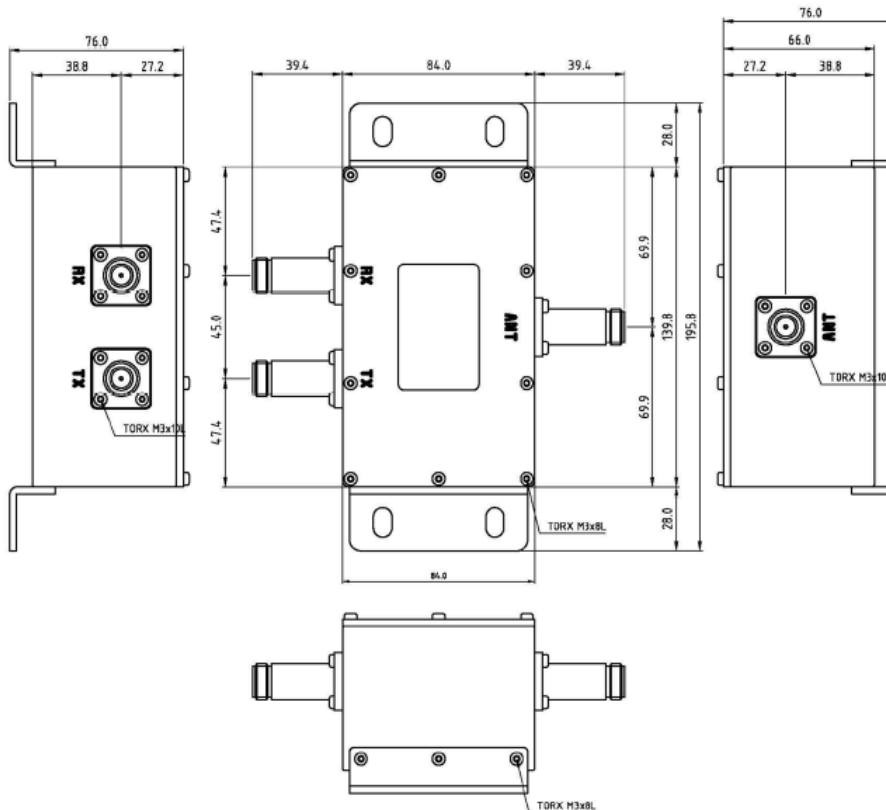
Pass Band Band1 TX Band2 RX	869-894MHz 824-849MHz
Insertion loss Band1,2,	< 0.6 dB
Isolation Band1,2	> 35 dB
VSWR	< 1.3 (18dB)
Intermodulation IM3	< -140 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	150 W
Lightning Protection	3kA 10/350 us
Operating Temp	-40 ~+ 70°C

### Mechanical Specifications

Connector	N Female Long neck
Dimensions(w × h × d)	140 / 84 / 60(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66



### Drawing



Specifications are subject to change without notice

800MHz Band	869-894MHz 824-849MHz
2.1GHz Band	1920-1980MHz 2110-2170MHz

Type **MY2-0821-002-KG**

## Repeater Duplexer Dual Band Repeater Duplexer 800 MHz 2100MHz

### Electrical Specifications

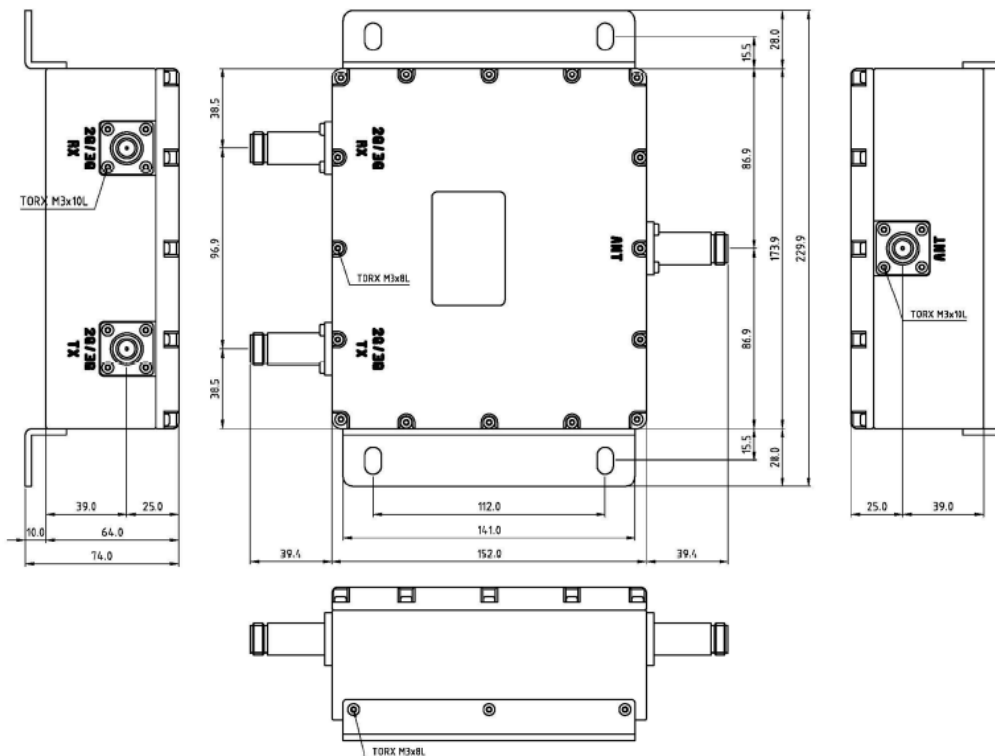
Pass Band Band1 RX TX Band2 RX TX	824-849 MHz 869-894 MHz 1920-1980 MHz 2110-2170 MHz
Insertion loss Band1 Band2,	< 0.6 dB < 0.3 dB
Isolation Band1, Band2	> 35 dB > 50 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -140 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	150 W
Lightning Protection	3kA 10/350 us
Operating Temp	-40 ~+ 70°C



### Mechanical Specifications

Connector	N Female Long neck
Dimensions(w × h × d)	174 / 152 / 64(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66

### Drawing



Specifications are subject to change without notice

Type **MY2-0821-003-KG**

## Repeater Duplexer Dual Band Repeater Duplexer 800 MHz 2100MHz

### Electrical Specifications

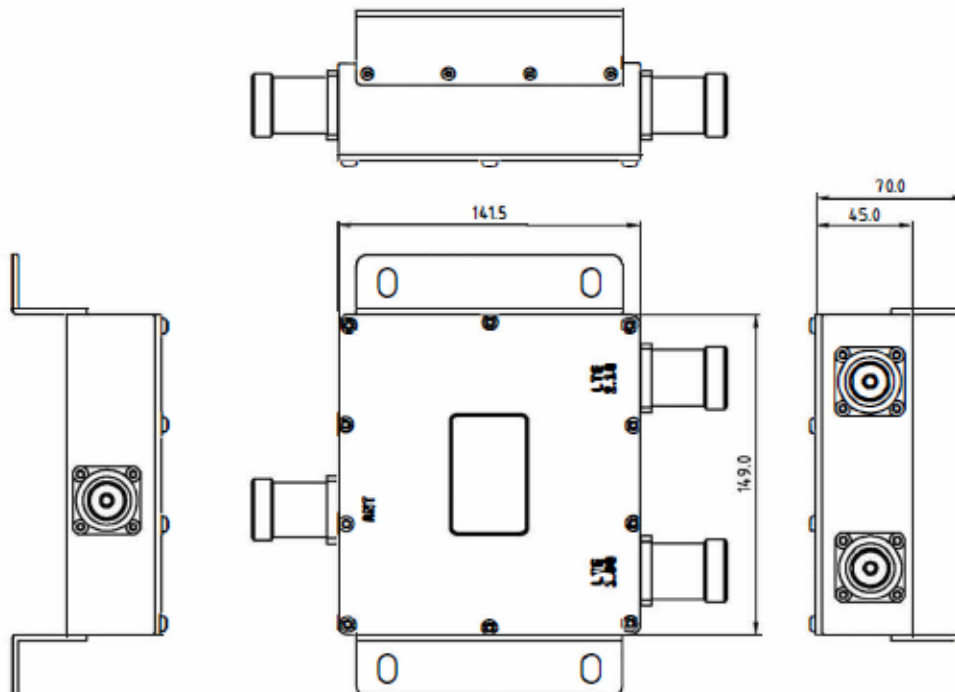
Pass Band	
Band1	819-960 MHz
Band2	1710-2170 MHz
Insertion loss	
Band1	< 3.5 dB
Band2,	< 3.5 dB
Isolation between port	> 25 dB
VSWR	< 1.22 (20dB)
Intermodulation IM3	< -150 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	150 W
Lightning Protection	3kA 10/350 us
Operating Temp	-30 ~+ 60°C

### Mechanical Specifications

Connector	DIN Female
Dimensions(w × h × d)	149 / 142 / 45(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66



### Drawing



Specifications are subject to change without notice

Type **MY2-0824-004-KG**

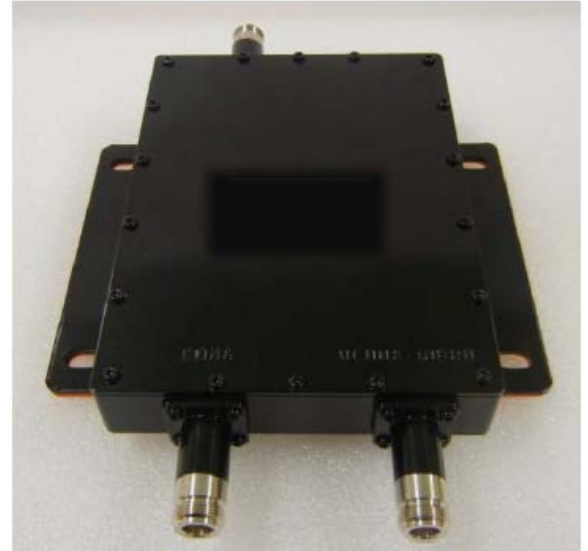
## BTS Ant Combiner Dual Band Combiner 800 MHz 1880 - 2400MHz

### Electrical Specifications

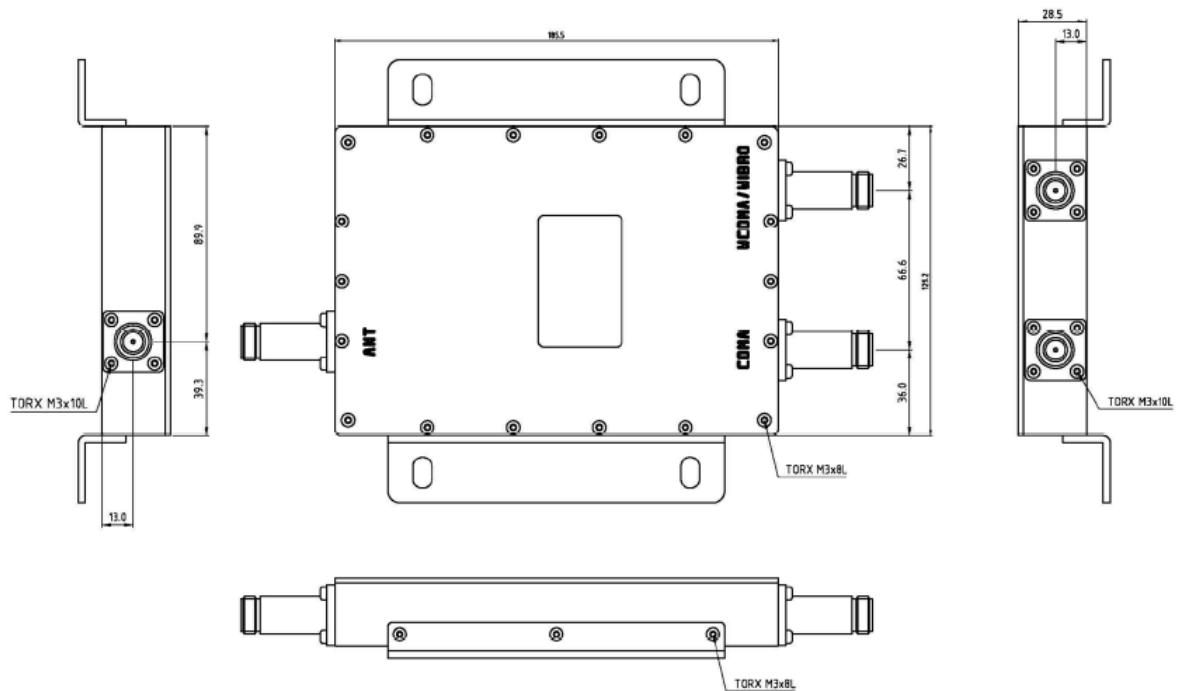
Pass Band	
Band1	824-894 MHz
Band2	1880 - 2400 MHz
Insertion loss	
Band1	< 0.25 dB
Band2,	< 0.25 dB
Isolation Between Low band and High Band	> 55 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -140 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	150 W
Lightning Protection	3kA 10/350 us
Operating Temp	-33 ~+ 60°C

### Mechanical Specifications

Connector	N Female
Dimensions(w × h × d)	130 / 186 / 29(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66



### Drawing



Specifications are subject to change without notice

800MHz Band	824-894MHz
1.9-2.1GHz Band	1920-2170MHz
2.3-2.4GHz Band	2300-2400MHz

## BTS Ant Combiner

### Triple Band Combiner 800 MHz 1900- 2100MHz 2300 - 2400MHz

#### Electrical Specifications

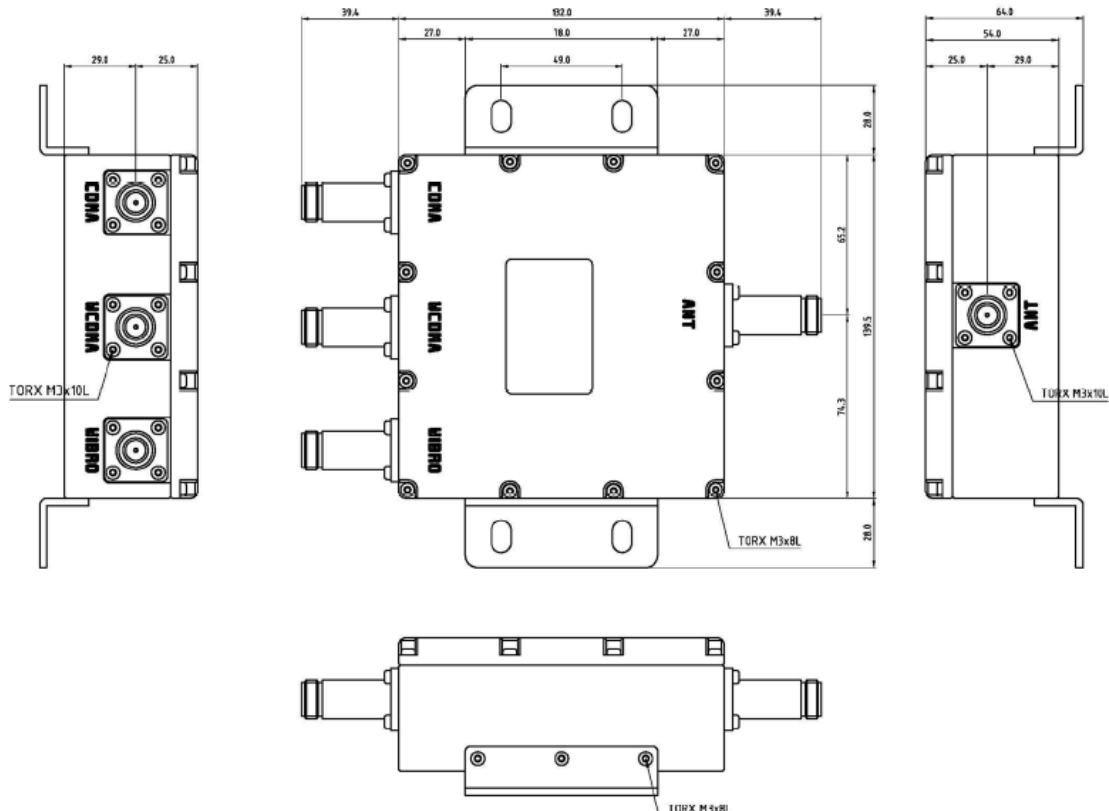
Pass Band	
Band1	824-894 MHz
Band2	1920-2170MHz
Band3	2300-2400MHz
Insertion loss	
Band1	< 0.3 dB
Band2,	< 0.3 dB
Band3	< 0.3 dB
Isolation	
Band1	> 55 dB
Band2	> 35 dB
Band3	> 35 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -140 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	150 W
Lightning Protection	3kA 10/350 us
Operating Temp	-40 ~+ 70°C



#### Mechanical Specifications

Connector	N Female Long neck
Dimensions(w × h × d)	140 / 132 / 54(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66

#### Drawing



Specifications are subject to change without notice

Type **MY3-1721-006-KG**

## BTS Ant Combiner Triple Band Combiner 1710- 2100MHz

### Electrical Specifications

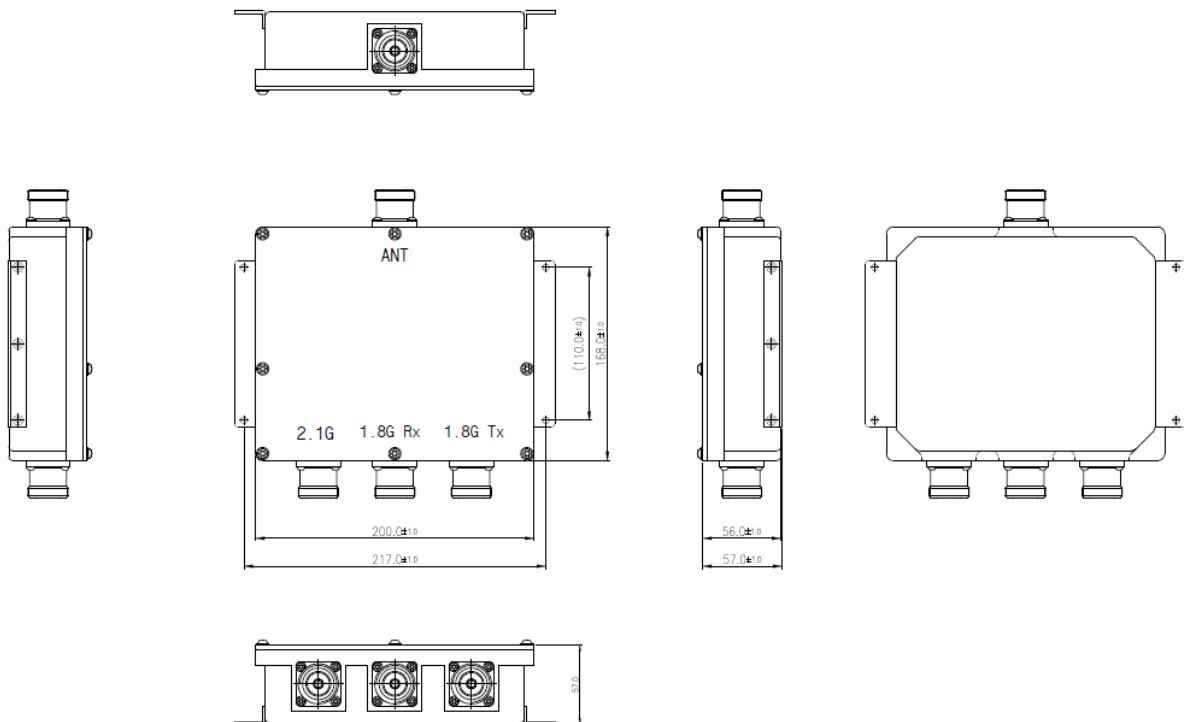
Pass Band	
Band1	1710-1790MHz
Band2	1805-1895MHz
Band3	1920-2170MHz
Insertion loss	
Band1	< 0.5 dB
Band2,	< 0.5 dB
Band3	< 0.5 dB
Isolation	
Band1	> 25 dB
Band2	> 25 dB
Band3	> 50 dB
VSWR	< 1.2(20dB)
Intermodulation IM3	< -160 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	150 W
Lightning Protection	3kA 10/350 us
Operating Temp	-40 ~+ 70°C



### Mechanical Specifications

Connector	Din-Female
Dimensions(w × h × d)	240 / 168 / 51(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP67

### Drawing



Specifications are subject to change without notice

800 MHz Band	824-894MHz
1.8GHz Band	1710-1870MHz
2.1GHzBand	1920-2170MHz

## BTS Ant Combiner Dual Band Combiner 824 – 894MHz and 1920 – 2170 MHz 1710- 1870MHz

### Electrical Specifications

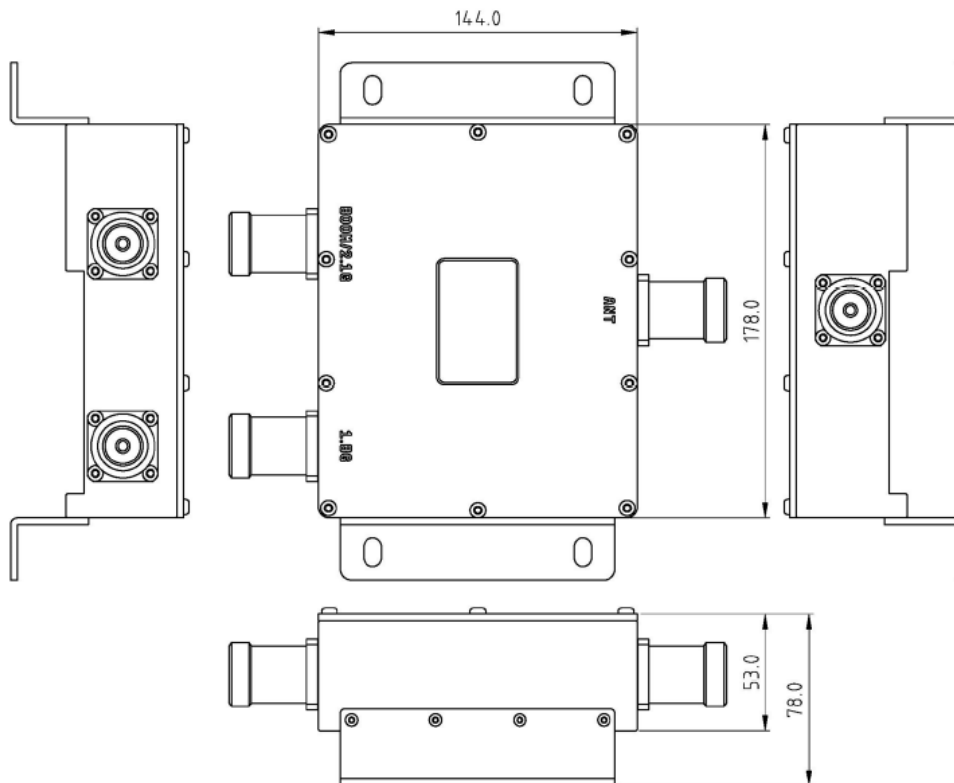
Pass Band	
Band1	824-894, 1920-2170MHz
Band2	1710-1870MHz
Insertion loss	
Band1	< 0.3 dB
Band2,	< 0.3 dB
Isolation	
Band1	> 40 dB
Band2	> 40 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -150 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	200 W
Lightning Protection	3kA 10/350 us
Operating Temp	-40 ~+ 70°C



### Mechanical Specifications

Connector	Din-Female
Dimensions(w × h × d)	178 / 144 / 53(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66

### Drawing



Specifications are subject to change without notice



Type **MY2-0821-008-KG**

## BTS Ant Combiner Dual Band Combiner 824 – 884MHz and 1715-1870 MHz 1920 – 2170 MHz

### Electrical Specifications

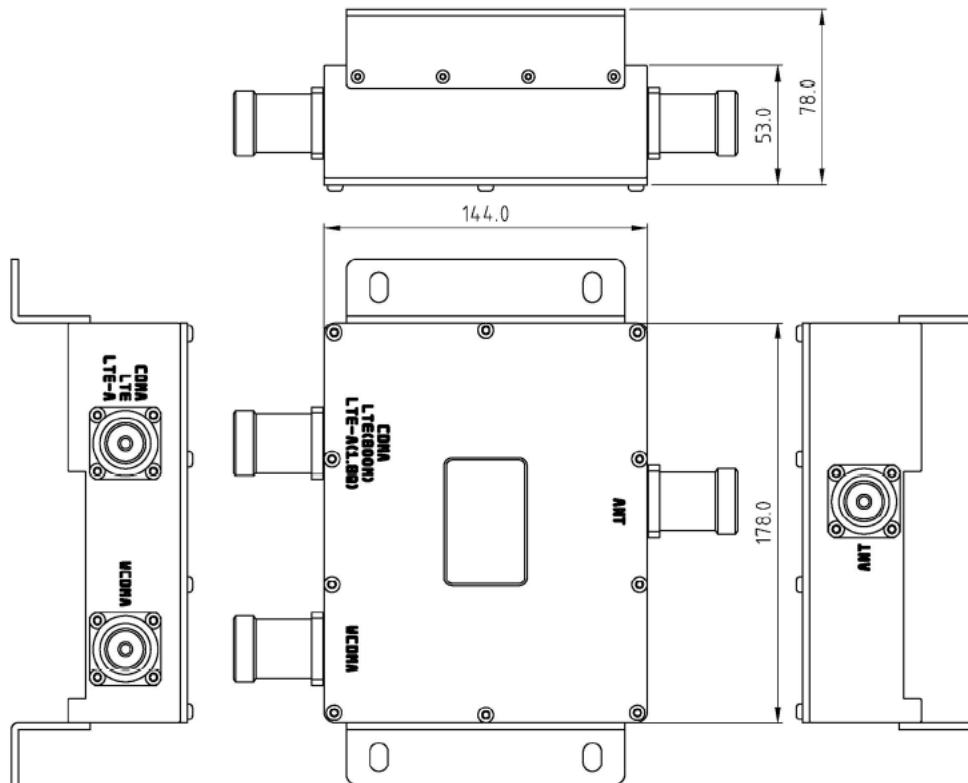
Pass Band	
Band1	824-884, 1715-1870MHz
Band2	1920 2170MHz
Insertion loss	
Band1	< 0.3 dB
Band2,	< 0.3 dB
Isolation	
Band1 to Band 2	> 40 dB
Band2 to Band 1	> 40 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -150 dBc (2nd,3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	200 W
Lightning Protection	3kA 10/350 us
Operating Temp	-30 ~+ 60°C

### Mechanical Specifications

Connector	Din-Female
Dimensions(w × h × d)	178 / 144 / 53(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66



### Drawing



Specifications are subject to change without notice

Type **MY2-0823-009-KG**

## BTS Ant Combiner Dual Band Combiner 824 – 884MHz and 1715-1870 MHz 2300 – 2330 MHz

### Electrical Specifications

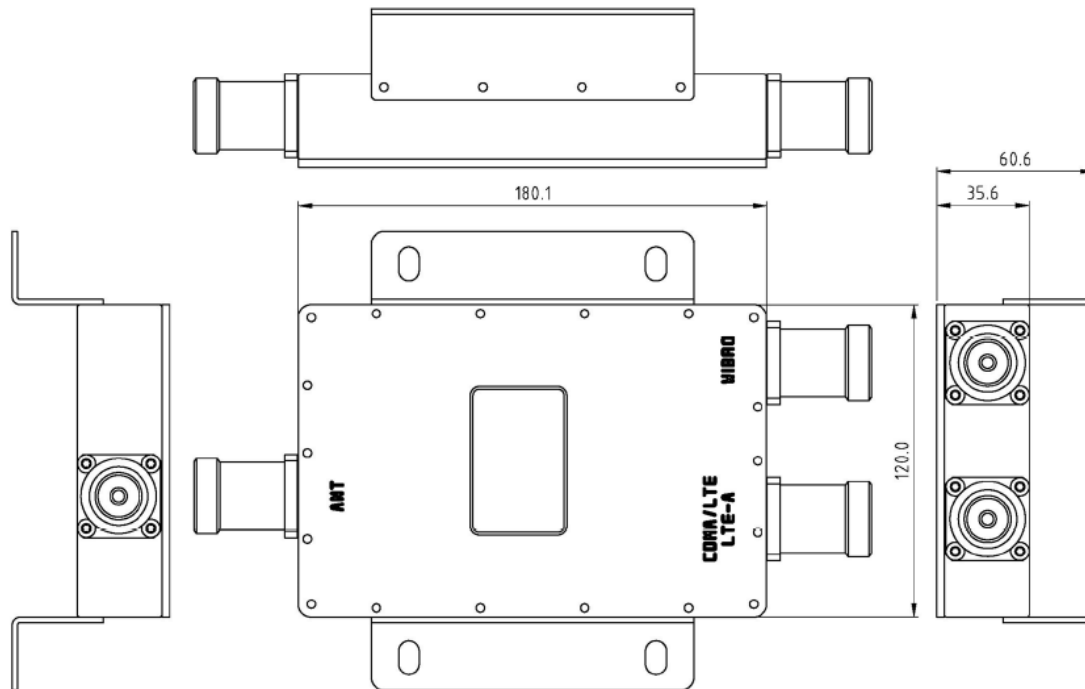
Pass Band	
Band1	824-884, 1715-1870MHz
Band2	2300 2330MHz
Insertion loss	
Band1	< 0.3 dB
Band2,	< 0.4 dB
Isolation	
Band1 to Band 2	> 40 dB
Band2 to Band 1	> 40 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -150 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	200 W
Lightning Protection	3kA 10/350 us
Operating Temp	-30 ~+ 60°C

### Mechanical Specifications

Connector	Din-Female
Dimensions(w × h × d)	180 / 120 / 36(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66



### Drawing



Specifications are subject to change without notice

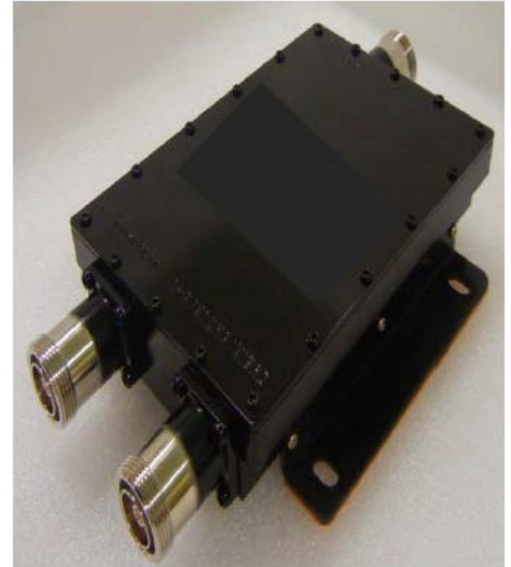
800 MHz Band	824-884MHz
1.8GHz Band	1715-1870MHz
2.1GHzBand	1920-2170MHz
2.3GHzBand	2300-2330MHz

Type **MY2-0823-010-KG**

## BTS Ant Combiner Dual Band Combiner 824 – 884MHz and 1715-1870 MHz 2300 – 2330 MHz

### Electrical Specifications

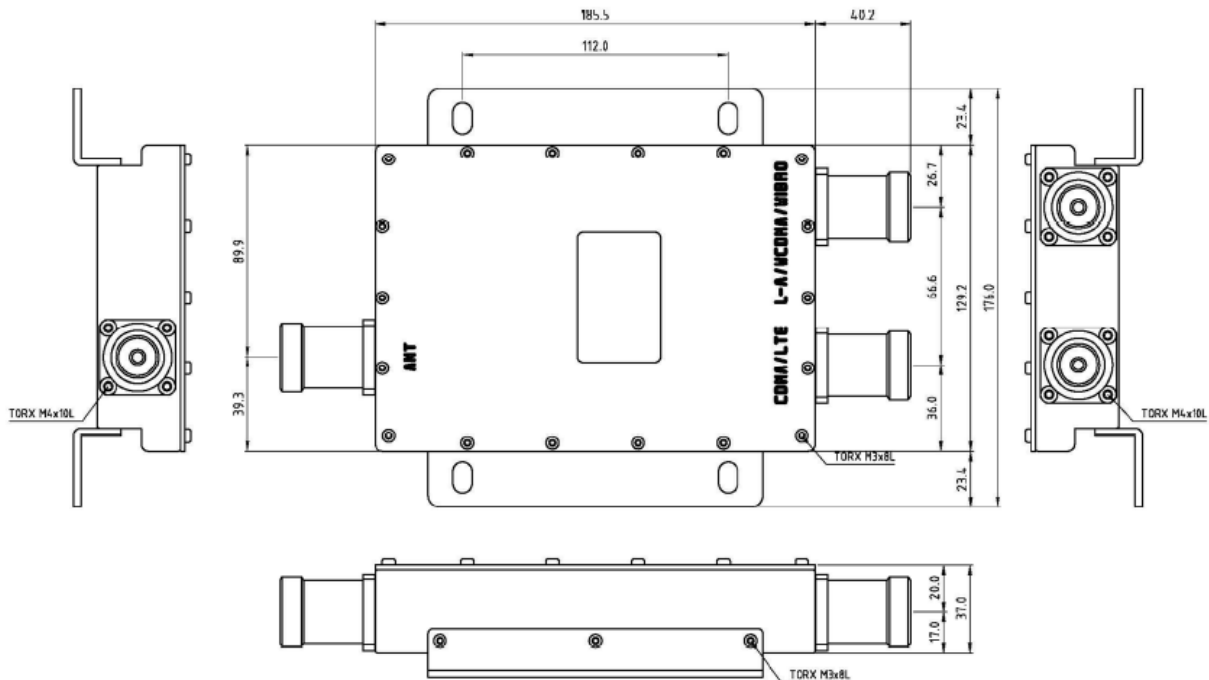
Pass Band	
Band1	824-884MHz
Band2	1715-1870, 1920-2170, 2300-2330MHz
Insertion loss	
Band1	< 0.3 dB
Band2,	< 0.3 dB
Isolation	
Band1 to Band 2	> 50 dB
Band2 to Band 1	> 50 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -150 dBc (2nd, 3rd order with 2 CW ×20W)
Impedance	50 Ω
Max. Power per Input	200 W
Lightning Protection	3kA 10/350 us
Operating Temp	-30 ~+ 60°C



### Mechanical Specifications

Connector	Din-Female
Dimensions(w × h × d)	130 / 185 / 37(mm) Without Connector and Bracket
Weight	4 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66

### Drawing



Specifications are subject to change without notice

## BTS Ant Combiner Dual Band Combiner 1710- 2100MHz

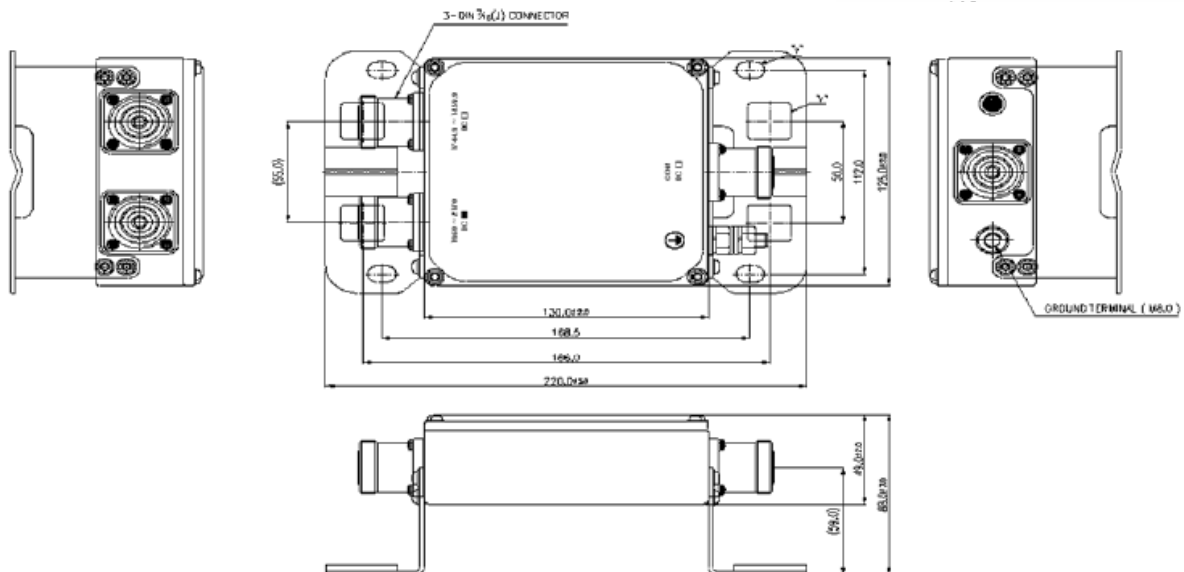
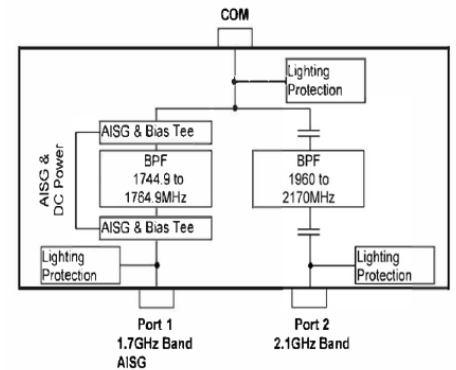
### Electrical Specifications

Pass Band	
Band1	1744.9-1764.9, 1839.9-1859.9 MHz
Band2	1960-1980, 2150-2170MHz
Insertion loss	
Band1	< 0.5 dB
Band2,	< 0.5 dB
Isolation	
Band1	> 50 dB
Band2	> 50 dB
VSWR	< 1.3(18dB)
Intermodulation IM	
Port 1 1839.9-1859.9MHz@ IM9	< -121 dBm
Port2 1960-1980MHz@IM19	
Impedance	50 Ω
Max. Power per Input	200 W
Lightning Protection	5kA 8/20 us

### Mechanical Specifications

Connector	Din-Female
Dimensions(w × h × d)	130 / 125 / 49(mm) Without Connector and Bracket
Weight	3 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66

### Drawing



Specifications are subject to change without notice

700MHz	698-787MHz
800MHz	806-894MHz
1.7G, 2.1GHzBand	1710-1755,2110-2155MHz
1.9GHz Band	1850-1995MHz

Type **MY4-0621-012-KG**

## BTS Ant Combiner

### Quad Band Combiner 698 – 787 MHz 806 – 894MHz 1710-1755 and 2110-2155 MHz 1850 – 1995 MHz

#### Electrical Specifications

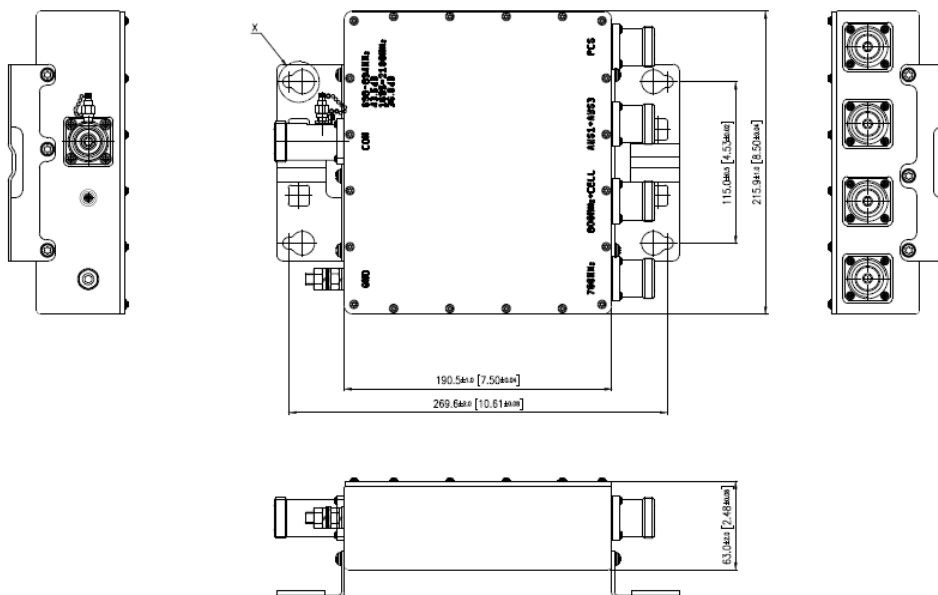
Pass Band	
Band1	698-787MHz
Band2	806-894MHz
Band3	1710-1755,2110-2155MHz
Band4	1850-1995MHz
Insertion loss	
Band1	< 1.0 dB
Band2	< 1.0 dB
Band3	< 1.0 dB
Band4	< 1.0 dB
Isolation	
Band1 ↔ Band 2	> 60 dB
Band1 ↔ Band 3	> 80 dB
Band2 ↔ Band 3	> 80 dB
Band3 ↔ Band 4	> 60 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -160 dBc (3rd order with 2 CW × 20W)
Impedance	50 Ω
Max. Power per Input	200 W
Lightning Protection	8kA 8/20 us
Operating Temp	-40 ~+ 65°C



#### Mechanical Specifications

Connector	Din-Female
Dimensions(w × h × d)	460 / 360 / 184(mm) Without Connector and Bracket
Weight	8 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66

#### Drawing



Specifications are subject to change without notice

700-800MHz Band	698-894MHz
1.7G, 2.1GHzBand	1695-1755,2110-2180MHz
1.9GHz Band	1850-1990MHz
2.3GHz Band	2305-2360MHz

Type **MY4-0623-013-KG**

## BTS Ant Combiner

### Quad Band Combiner 698 – 894 MHz 1695-1755 and 2110-2180 MHz 1850–1990 MHz, 2305-2360MHz

#### Electrical Specifications

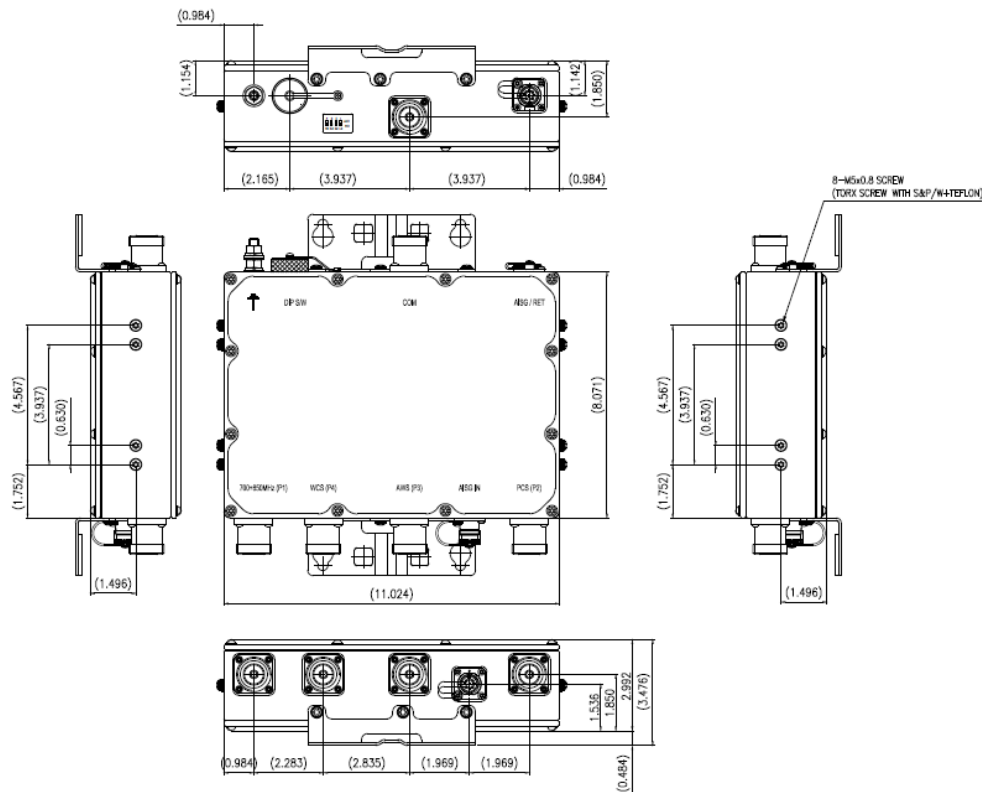
Pass Band	
Band1	698-894MHz
Band2	1695-1755,2110-2180MHz
Band3	1850-1990MHz
Band4	2305-2360MHz
Insertion loss	
Band1	< 0.4 dB
Band2	< 0.4 dB
Band3	< 0.4 dB
Band4	< 0.4 dB
VSWR	< 1.3(18dB)
Intermodulation IM3	< -150 dBc
Impedance	50 Ω
Max. Power per Input	Average 400 W / Peak 5000 W
DC-by-pass / AISG	Protocol 2.0
Lightning Protection	8kA 8/20 us
Operating Temp	-30 ~+ 50°C



#### Mechanical Specifications

Connector	Din 7/16-Female
Dimensions(w × h × d)	270 / 223 / 95(mm) Without Connector and Bracket
Weight	8 kg
Mounting	Mounting kit or Stainless Band
Dust/water resistance	IP66

#### Drawing



Specifications are subject to change without notice