

## 2X1 Hybrid Coupler 136-174MHz

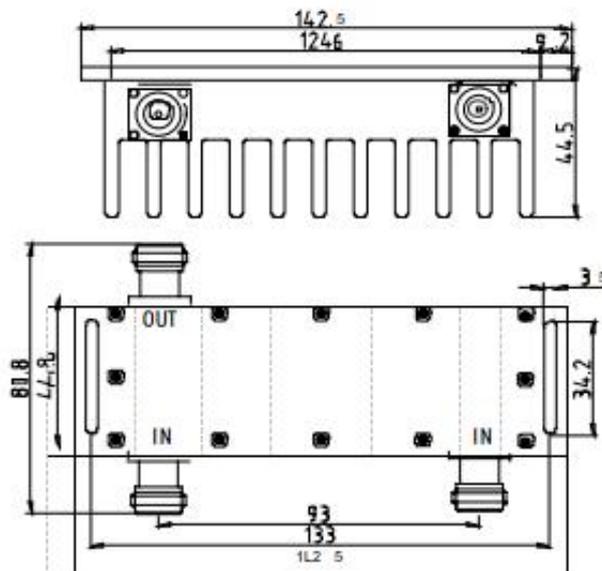
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss: Minimizes signal attenuation.
- High Isolation: Reduces signal interference between ports.
- Robust Power Handling: Accommodates high-power signals without damage.

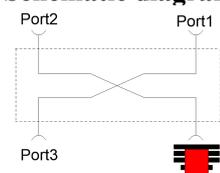


Frequency band	136-174MHz
Insertion loss(dB)	$\leq 3.0 + 0.7$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 20$
Impedance ( $\Omega$ )	50
Power Rating	100 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP60

### Outline drawing (Unit: mm)



### Schematic diagram



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-21-VHF-N	2x1	0.55	142.5*44.8*44.5	N- Female

## 2X1 Hybrid Coupler 800-2700MHz

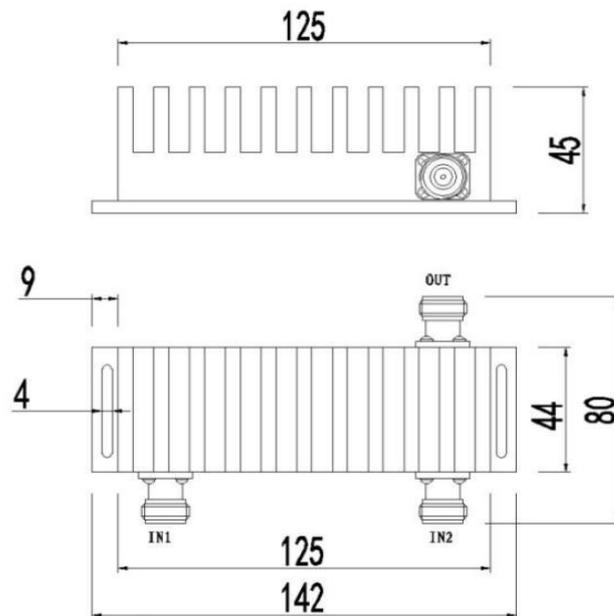
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss: Minimizes signal attenuation.
- High Isolation: Reduces signal interference between ports.
- Robust Power Handling: Accommodates high-power signals without damage.

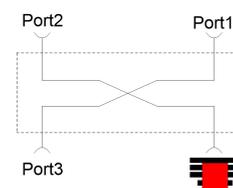


Frequency band	800-2700MHz
Insertion loss(dB)	$\leq 3.0 + 0.7$
VSWR	$\geq 21$
Isolation(dB)	$\leq 1.3$
Impedance ( $\Omega$ )	50 $\Omega$
Power Rating	100W
Operation temperature	-35 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP60

### Outline drawing (Unit: mm)



### Schematic diagram



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC--21-0827-N	2x1	0.55	142*44*45	N- Female

## 2X1 Hybrid Coupler 698-3800MHz

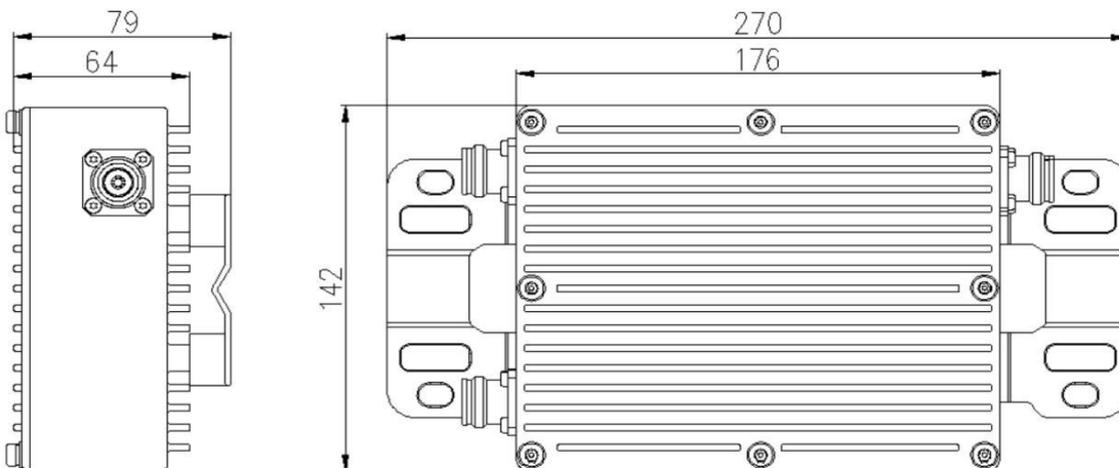
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection



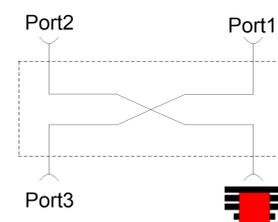
Frequency band	698-3800MHz
Insertion loss(dB)	$\leq 3.0 + 0.6$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 23$
Intermodulation (dBc)	$\leq -160$ dBc (with $2 \times 43$ dBm)
Impedance ( $\Omega$ )	50
Power Rating	200 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-21-0638-43	2x1	2.5	176*142*64	4.3-10/ Female
BR-HC-21-0638-N	2x1	2.5	176*142*64	N/ Female
BR-HC-21-0638-7/16	2x1	2.5	176*142*64	7/16/DIN Female

### Schematic diagram



## 2X2 Hybrid Coupler 380-430MHz

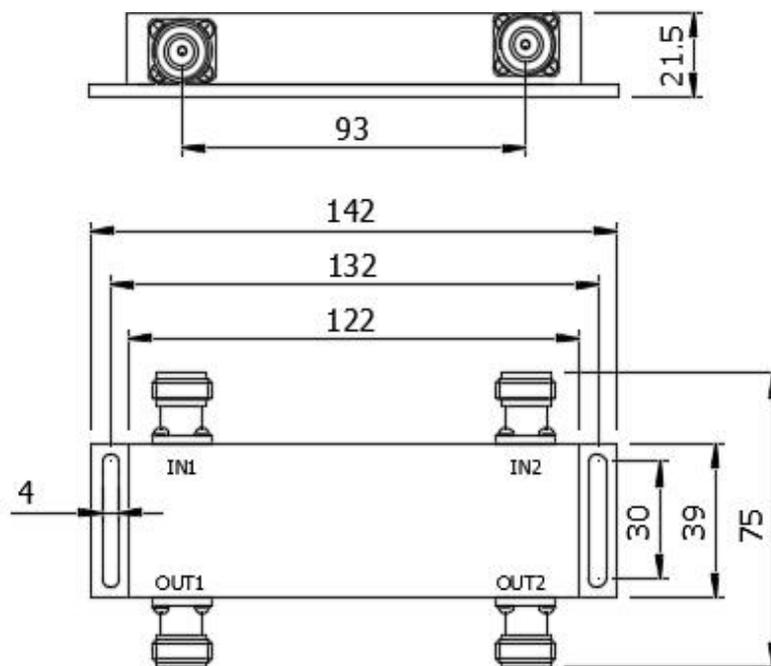
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss: Minimizes signal attenuation.
- High Isolation: Reduces signal interference between ports.
- Robust Power Handling: Accommodates high-power signals without damage.

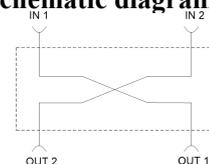


Frequency band	380-430MHz
Insertion loss(dB)	$\leq 3.0 + 0.5$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 23$
Impedance ( $\Omega$ )	50
Power Rating	200 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



### Schematic diagram



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-22-UHF-N	2x2	0.56	142*39*21.5	N- Female

## 2X2 Hybrid Coupler 698-3800MHz

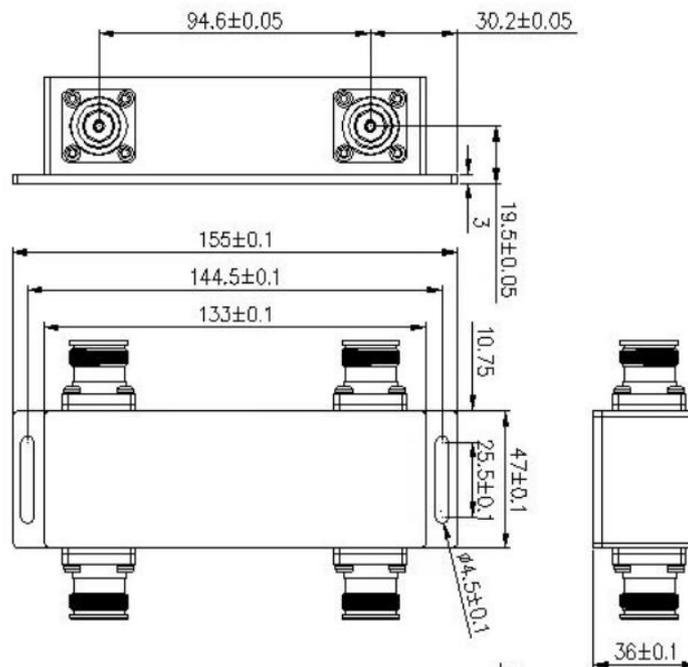
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection

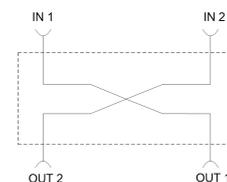


Frequency band	698-3800MHz
Insertion loss(dB)	$\leq 3.0 + 0.6$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 23$
Intermodulation (dBc)	$\leq -160$ dBc (with $2 \times 43$ dBm)
Impedance ( $\Omega$ )	50
Power Rating	200 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



### Schematic diagram



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-22-0638-43	2x2	0.7	155X47X36	4.3-10- Female
BR-HC-22-0638-N	2x2	0.7	155X47X36	N- Female

## 2X2 Hybrid Coupler 350-2700MHz

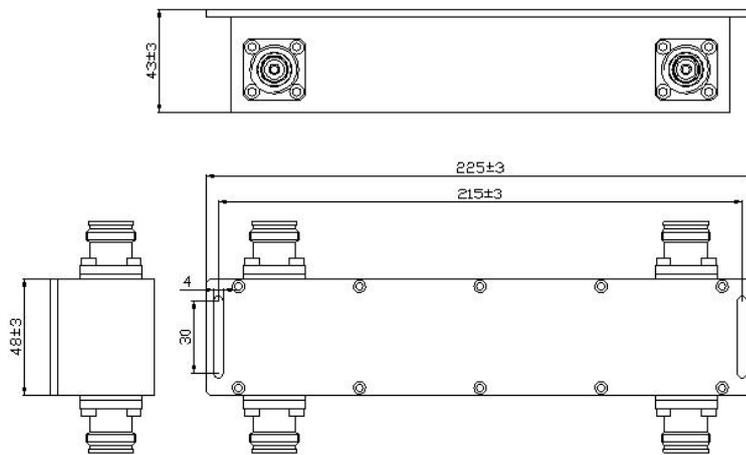
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection



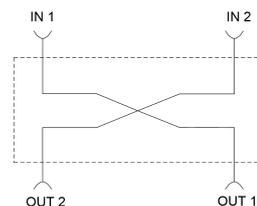
Frequency band	350-2700MHz
Insertion loss(dB)	$\leq 3.0 + 0.6$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 25$
Intermodulation (dBc)	$\leq -160\text{dBc}$ (with $2 \times 43\text{dBm}$ )
Impedance ( $\Omega$ )	50
Power Rating	200 W (avg.)
Operation temperature	$-25^\circ\text{C}$ to $+75^\circ\text{C}$
Storage temperature	$-55^\circ\text{C}$ to $+85^\circ\text{C}$
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-22-3527-43	2x2	0.7	225*48*43	4.3-10- Female
BR-HC-22-3527-N	2x2	0.7	225*48*43	N- Female
BR-HC-22-3527-7/16	2x2	0.8	225*48*43	7/16- Female

### Schematic diagram



## 2X2 Hybrid Coupler 600-6000MHz

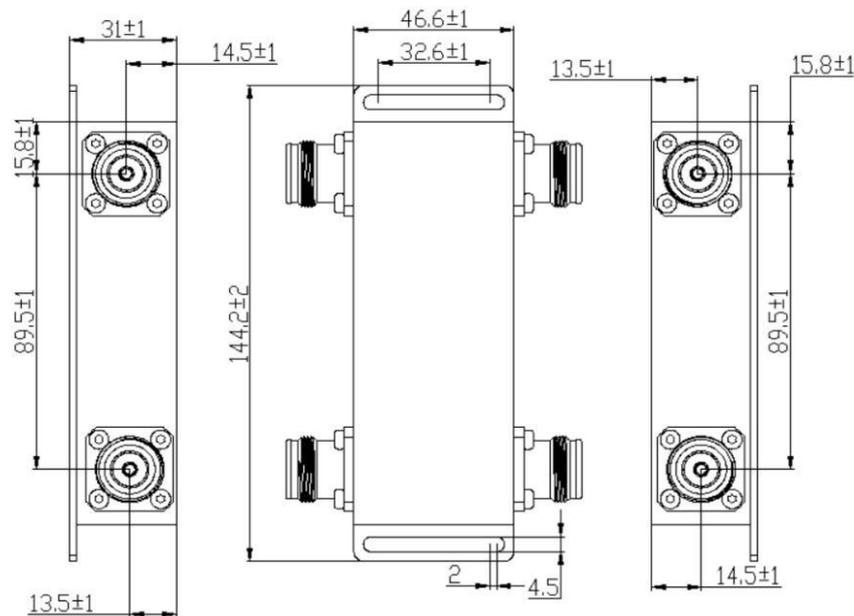
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection



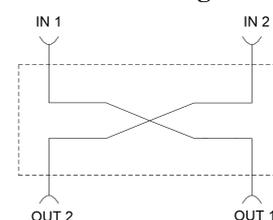
Frequency band	600-6000MHz
Insertion loss(dB)	$\leq 3.0 + 0.6$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 23$
Intermodulation (dBc)	$\leq -160$ dBc (with $2 \times 43$ dBm)
Impedance ( $\Omega$ )	50
Power Rating	200 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-22-0660-43	2x2	0.7	144*46.6*31	4.3-10- Female
BR-HC-22-0660-N	2x2	0.7	144*46.6*31	N- Female

### Schematic diagram



## 3X3 Hybrid Coupler 698-2700MHz

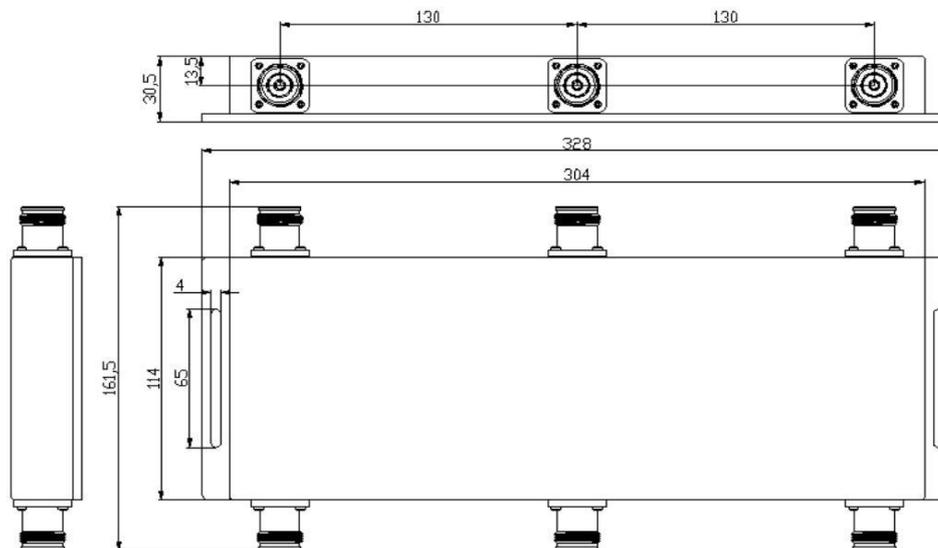
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection



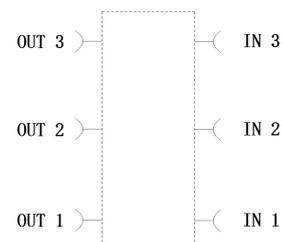
Frequency band	698-2700MHz
Insertion loss(dB)	$\leq 5.0 + 1.0$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 23$
Intermodulation (dBc)	$\leq -160\text{dBc}$ (with $2 \times 43\text{dBm}$ )
Impedance ( $\Omega$ )	50
Power Rating	300 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



### Schematic diagram

Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-33-0627-43	3x3	2.2	328*114*30.5	4.3-10- Female
BR-HC-33-0627-N	3x3	2.3	328*114*30.5	N- Female



## 3X3 Hybrid Coupler 698-3800MHz

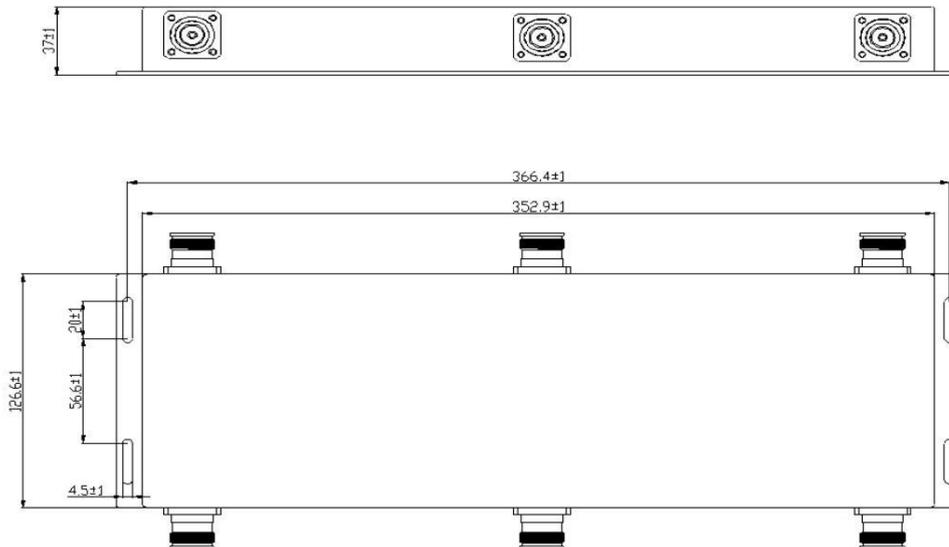
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection



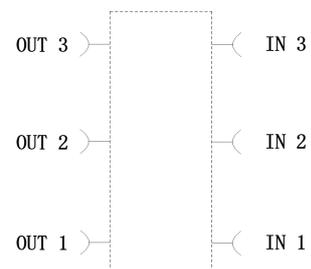
Frequency band	698-3800MHz
Insertion loss(dB)	$\leq 5.0 + 1.0$
VSWR	$\leq 1.3$
Isolation(dB)	$\geq 23$
Intermodulation (dBc)	$\leq -160\text{dBc}$ (with $2 \times 43\text{dBm}$ )
Impedance ( $\Omega$ )	50
Power Rating	300 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-55 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



### Schematic diagram

Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-33-0638-43	3x3	2.8	366.5*126*37	4.3-10- Female
BR-HC-33-0638-N	3x3	2.9	366.5*126*37	N- Female



## 4X4 Hybrid Coupler 350-2700MHz

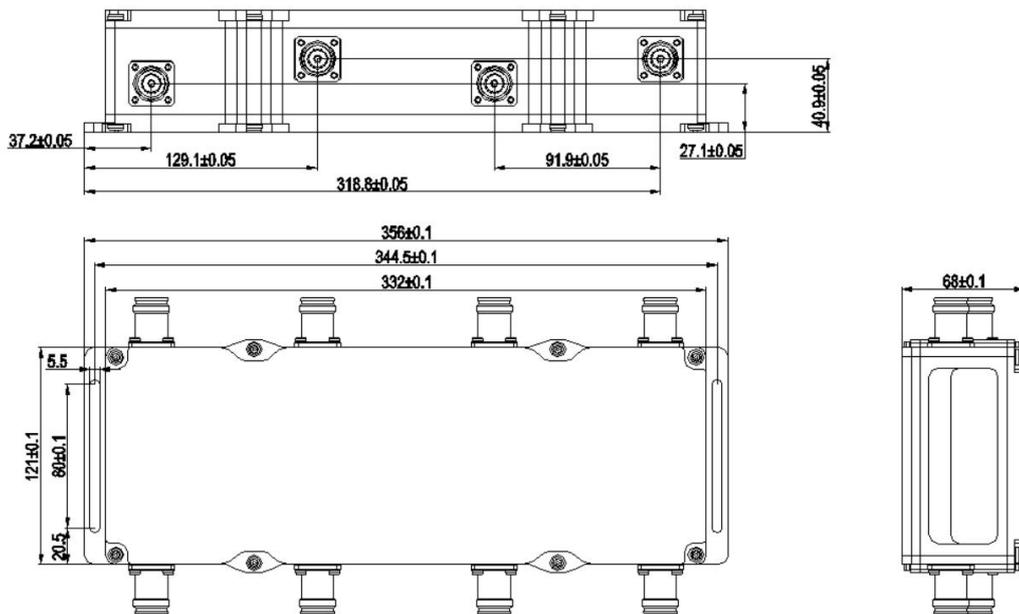
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection



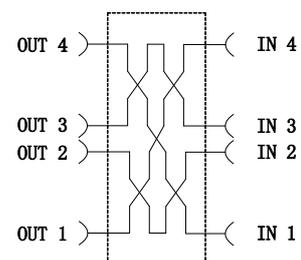
Frequency band	350-2700MHz
Insertion loss(dB)	$\leq 6.0 + 1.5$
VSWR	$\leq 1.25$
Isolation(dB)	$\geq 23$
Intermodulation (dBc)	$\leq -160\text{dBc}$ (with $2 \times 43\text{dBm}$ )
Impedance ( $\Omega$ )	50
Power Rating	300 W (avg.)
Operation temperature	$-25^\circ\text{C}$ to $+75^\circ\text{C}$
Storage temperature	$-40^\circ\text{C}$ to $+85^\circ\text{C}$
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-44-3527-43	4x4	3.3	356*121*68	4.3-10- Female
BR-HC-44-3527-N	4x4	3.3	356*121*68	N- Female
BR-HC-44-3527-7/16	4x4	3.4	356*121*68	7/16- Female

### Schematic diagram



## 4X4 Hybrid Coupler 617-3800MHz

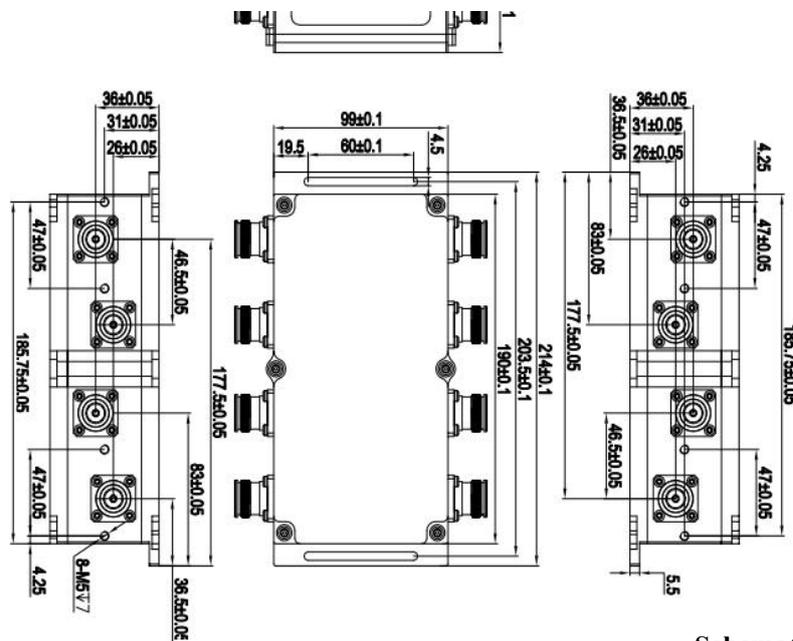
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection



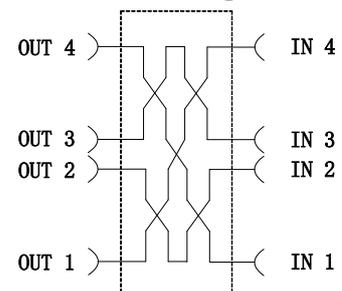
Frequency band	617-3800MHz
Insertion loss(dB)	≤6.0+1.5
VSWR	≤1.3
Isolation(dB)	≥23
Intermodulation (dBc)	≤-160dBc (with 2×43dBm)
Impedance (Ω)	50
Power Rating	300 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-44-0638-43	4x4	2.7	214*99*62	4.3-10- Female
BR-HC-44-0638-N	4x4	2.7	214*99*62	N- Female
BR-HC-44-0638-7/16	4x4	2.8	214*99*62	7/16- Female

### Schematic diagram



## 4X4 Hybrid Couplerr 617-5925MHz

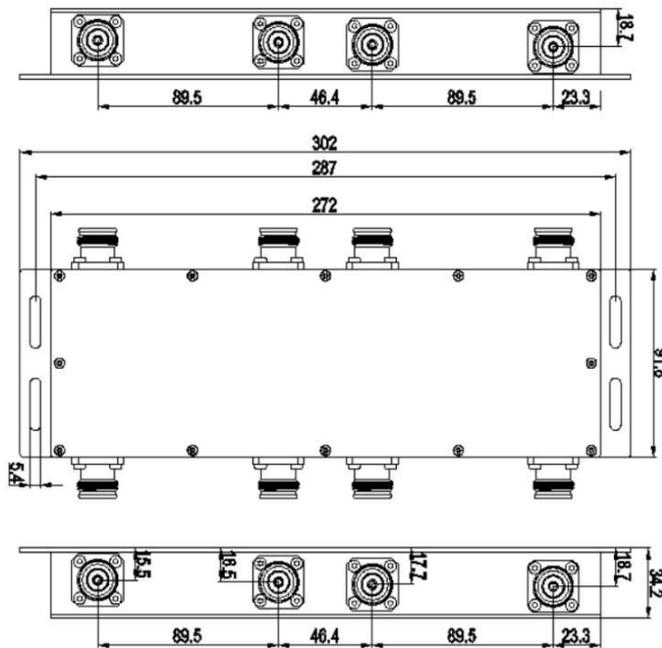
### Key Features:

- Wide Frequency Range: Suitable for diverse communication needs.
- Low Insertion Loss & High Isolation & Excellent intermodulation
- Robust Power Handling: Accommodates high-power signals without damage.
- Durable design with wide operating temperature and IP65 protection

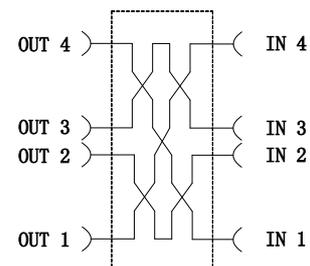


Frequency band	617-5925MHz
Insertion loss(dB)	≤6.0+2
VSWR	≤1.3
Isolation(dB)	≥18
Intermodulation (dBc)	≤-160dBc (with 2×43dBm)
Impedance (Ω)	50
Power Rating	300 W (avg.)
Operation temperature	-25 °C to +75 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	5% - 95%
Application	IP65

### Outline drawing (Unit: mm)



### Schematic diagram



Model No.	Type	Weight(kg)	Dimensions(mm)	Connectors
BR-HC-44-0659-43	4x4	2.5	302*92*34	4.3-10- Female
BR-HC-44-0659-N	4x4	2.6	302*92*34	N- Female