
Catalogue

Telecom Passives

SYNERGY TELECOM PVT LTD

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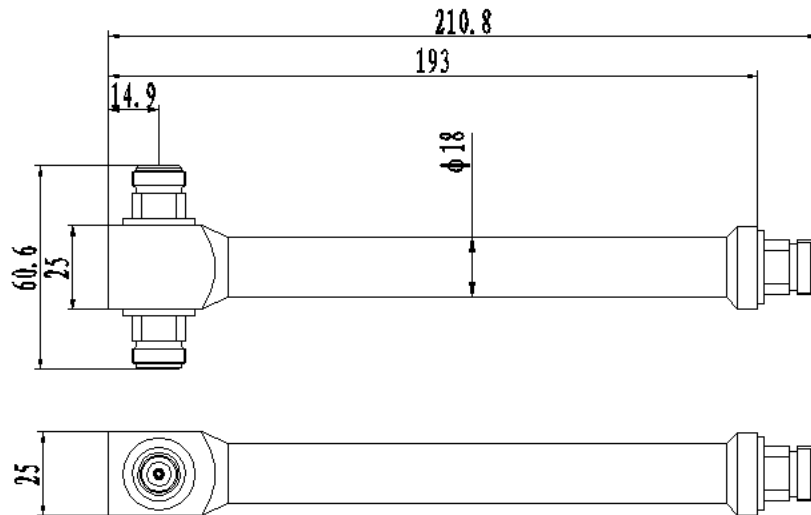
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Cavity Power Divider

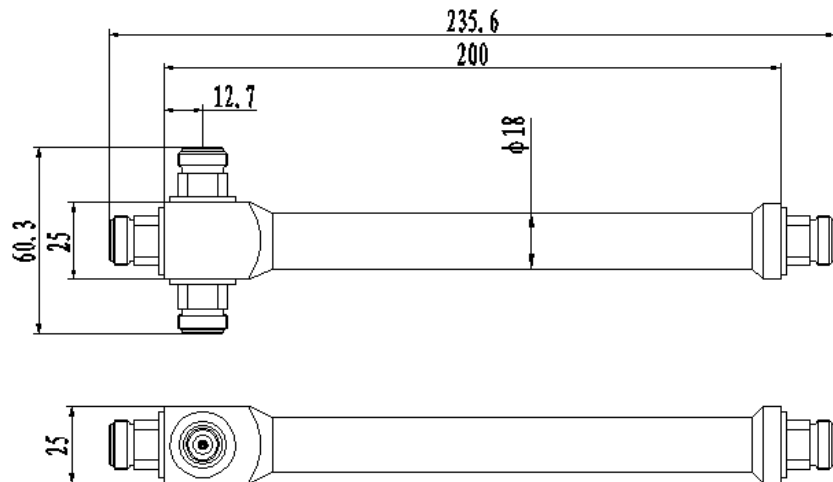
Two Divider (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Return Loss (dB)	>18
Insertion loss (dB)	≤3.3
Ripple in Band (dB)	≤0.3
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-150dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	193×25×25
Weight (g)	180



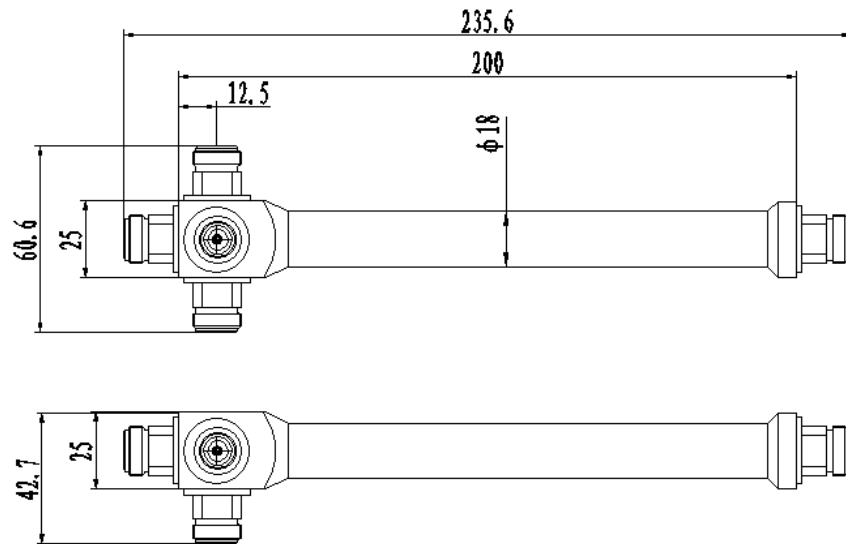
Three Divider (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Return Loss (dB)	>18
Insertion loss (dB)	≤5.2
Ripple in Band (dB)	≤0.3
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-150dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	200×25×25
Weight (g)	210



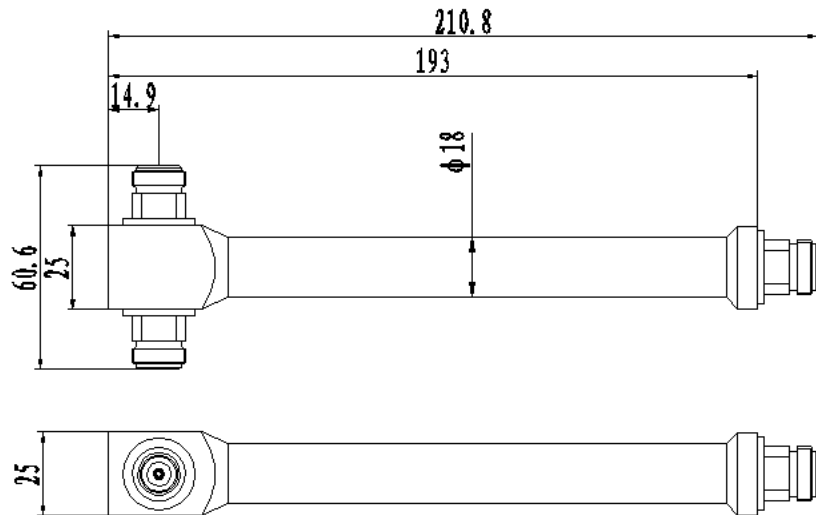
Four Divider (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Return Loss (dB)	>18
Insertion loss (dB)	≤6.5
Ripple in Band (dB)	≤0.4
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-150dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	200×25×25
Weight (g)	245



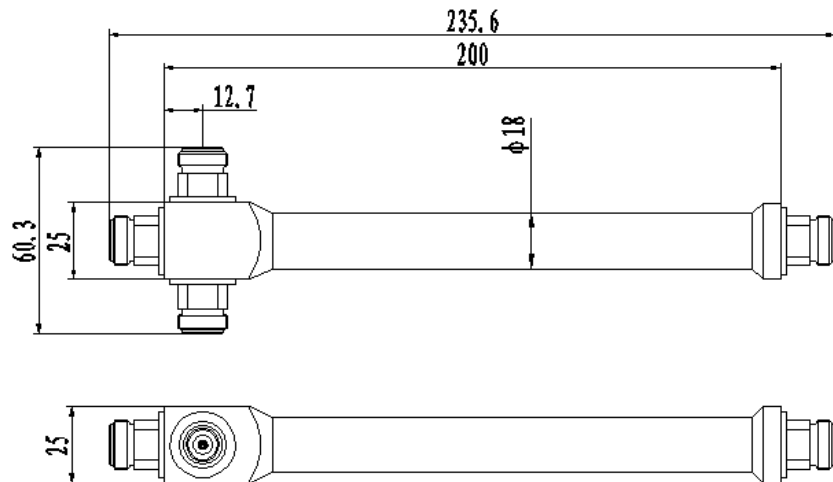
Two Divider (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Return Loss (dB)	>18
Insertion loss (dB)	≤3.3
Ripple in Band (dB)	≤0.3
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-150dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	193×25×25
Weight (g)	180



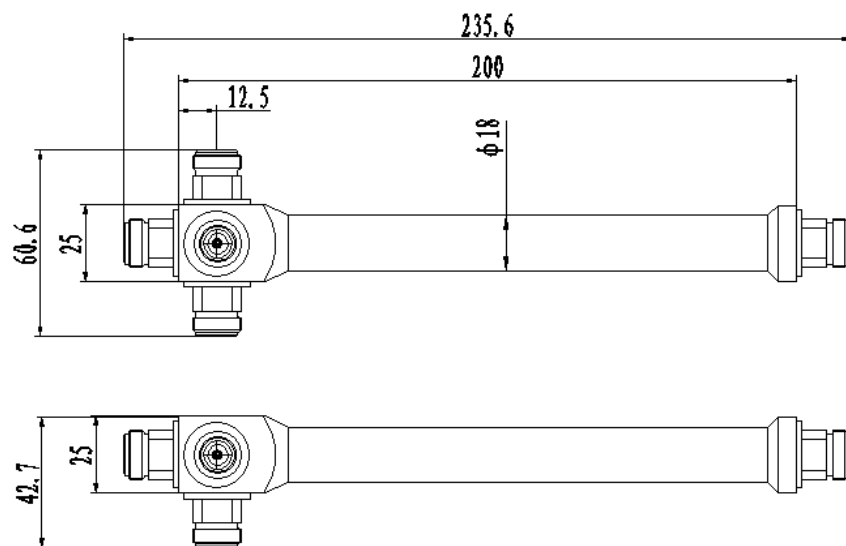
Three Divider (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Return Loss (dB)	>18
Insertion loss (dB)	≤5.2
Ripple in Band (dB)	≤0.4
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-150dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	200×25×25
Weight (g)	210



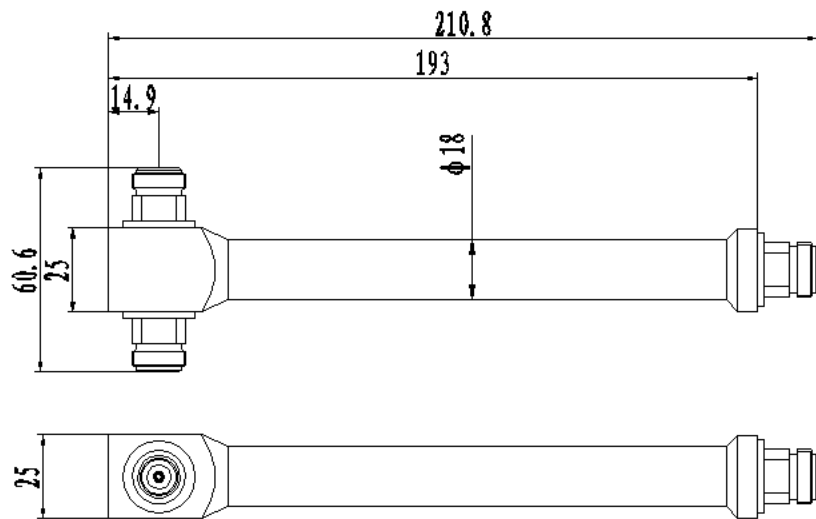
Four Divider (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Return Loss (dB)	>18
Insertion loss (dB)	≤6.5
Ripple in Band (dB)	≤0.5
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-150dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	200×25×25
Weight (g)	245



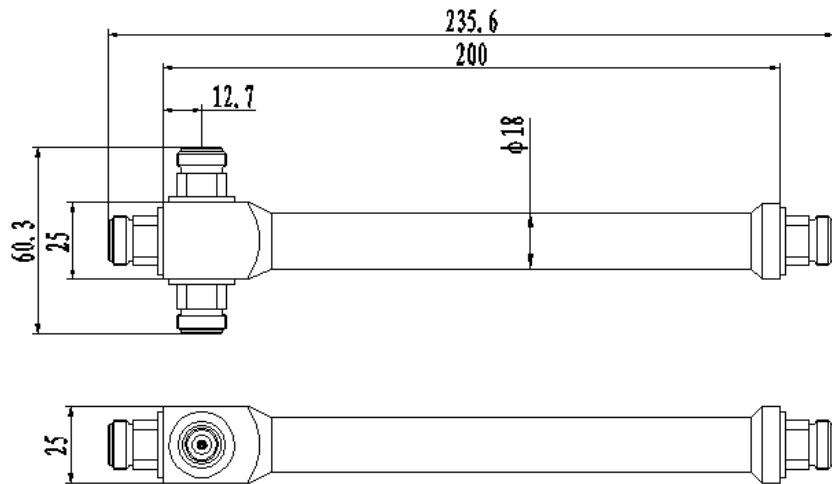
Two Divider (698-2700MHz, Model B)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Return Loss (dB)	>21
Insertion loss (dB)	≤3.3
Ripple in Band (dB)	≤0.35
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
Dimensions (mm)	193×25×25
Weight (g)	180



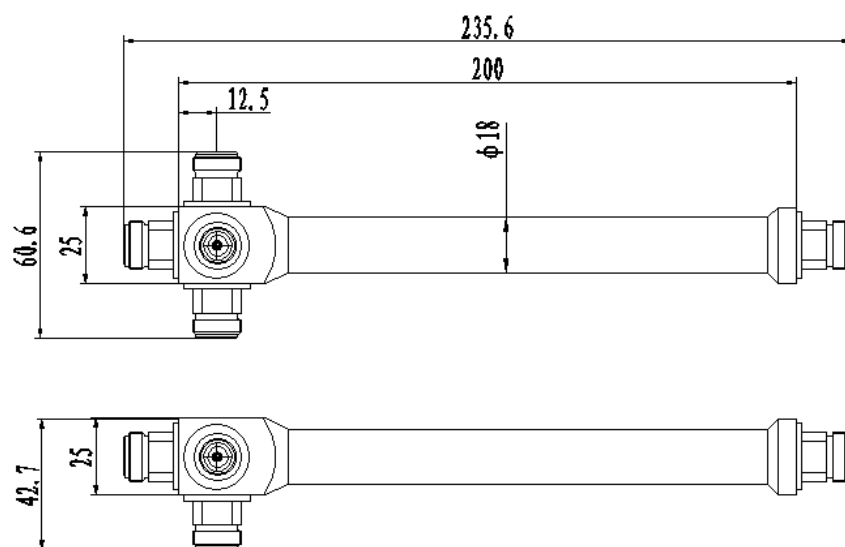
Three Divider (698-2700MHz, Model B)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Return Loss (dB)	>21
Insertion loss (dB)	≤5.2
Ripple in Band (dB)	≤0.45
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
Dimensions (mm)	200×25×25
Weight (g)	210



Four Divider (698-2700MHz, Model B)

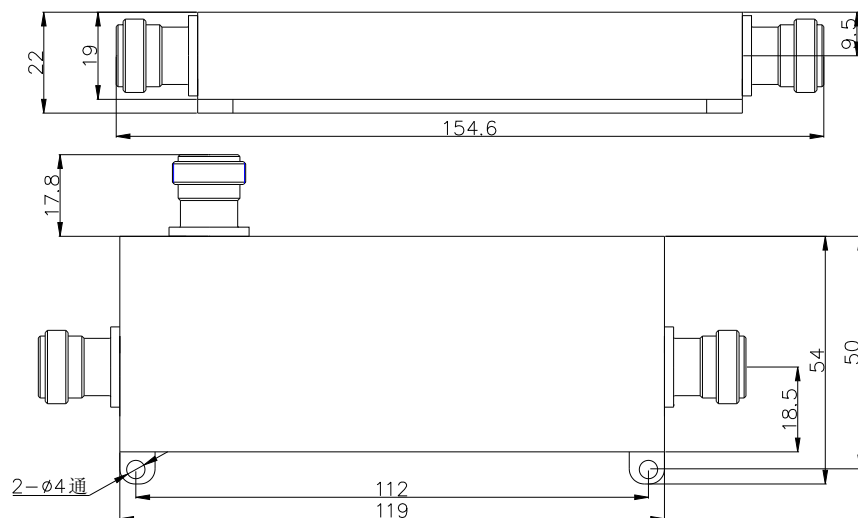
Parameter	Specifications
Frequency Range (MHz)	698-2700
Return Loss (dB)	>21
Insertion loss (dB)	≤6.5
Ripple in Band (dB)	≤0.55
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Temperature (°C)	-25~55
Relative Humidity (%)	5~95
Dimensions (mm)	200×25×25
Weight (g)	245



Cavity Coupler

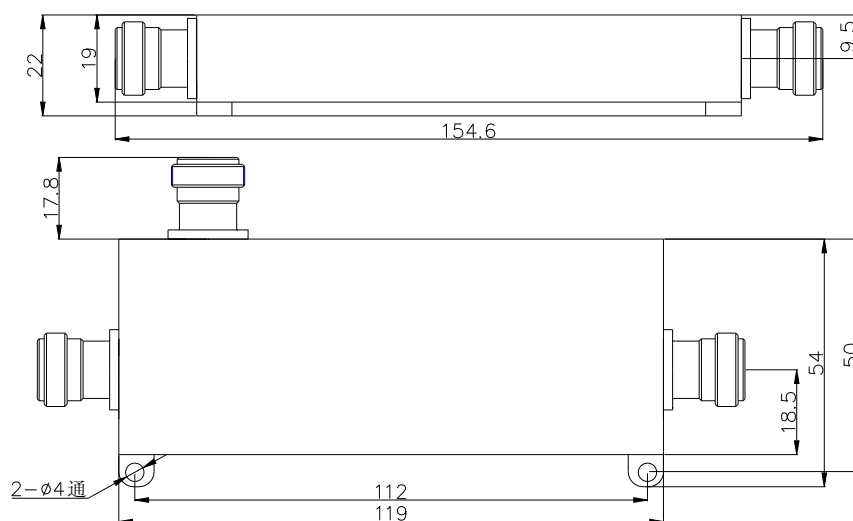
5dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	5±0.6
Return Loss (dB)	>18
Insertion loss (dB)	≤2.1
Directivity (dB)	≥20
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



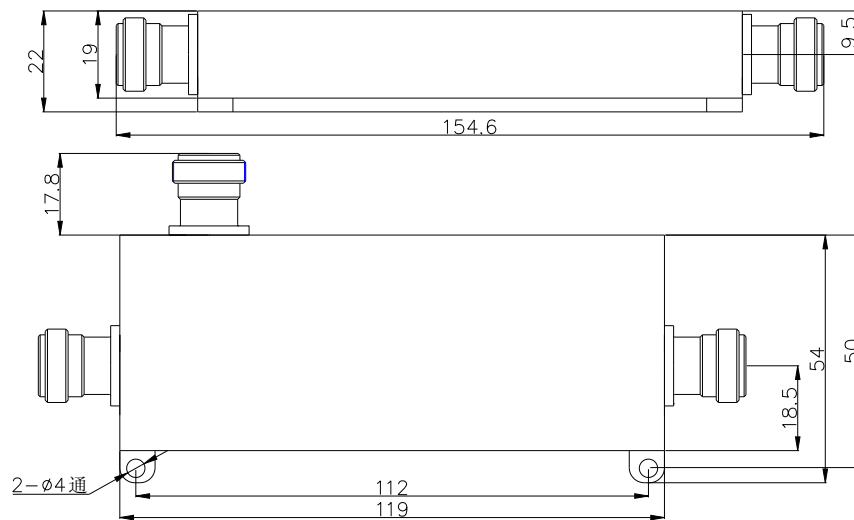
6dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	6±0.6
Return Loss (dB)	>18
Insertion loss (dB)	≤1.65
Directivity (dB)	≥20
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



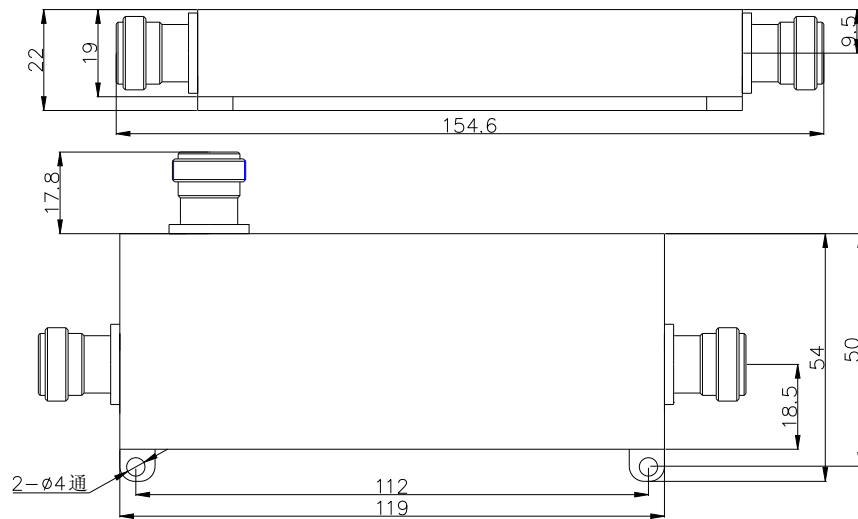
7dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	7±0.6
Return Loss (dB)	>18
Insertion loss (dB)	≤1.4
Directivity (dB)	≥20
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



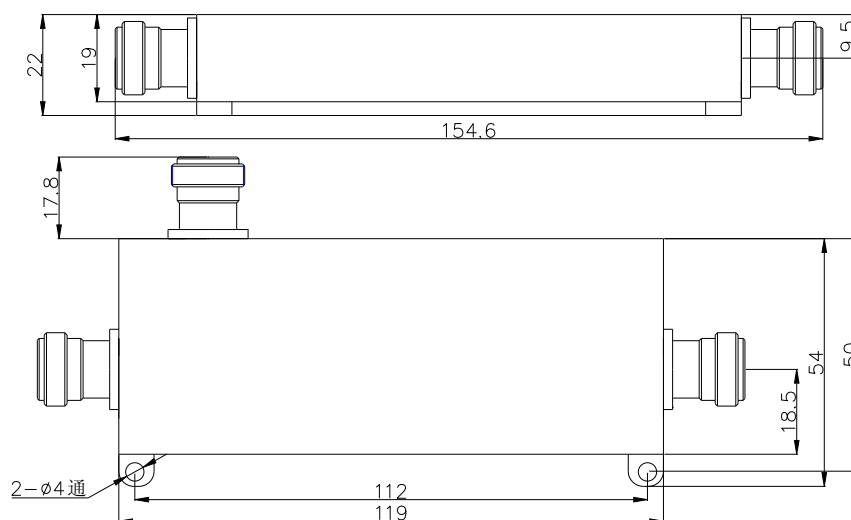
10dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	10±1
Return Loss (dB)	>18
Insertion loss (dB)	≤0.75
Directivity (dB)	≥20
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



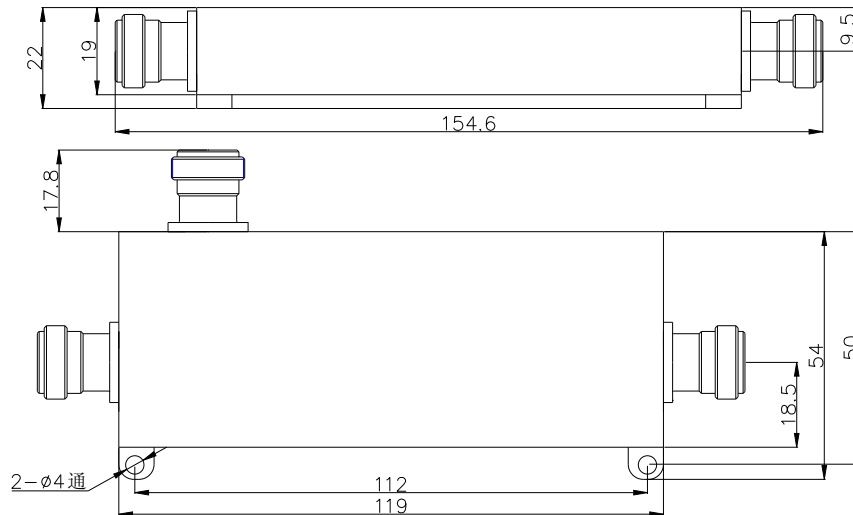
15dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	15±1
Return Loss (dB)	>18
Insertion loss (dB)	≤0.4
Directivity (dB)	≥20
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



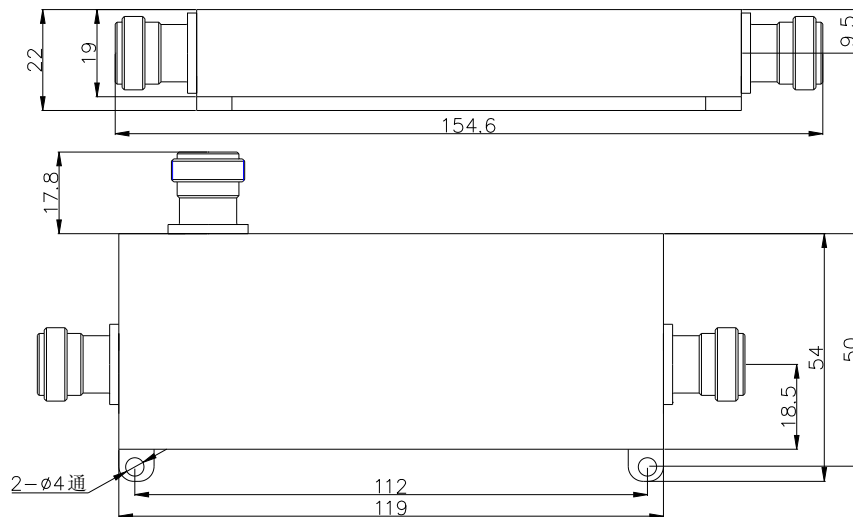
20dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	20±1
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



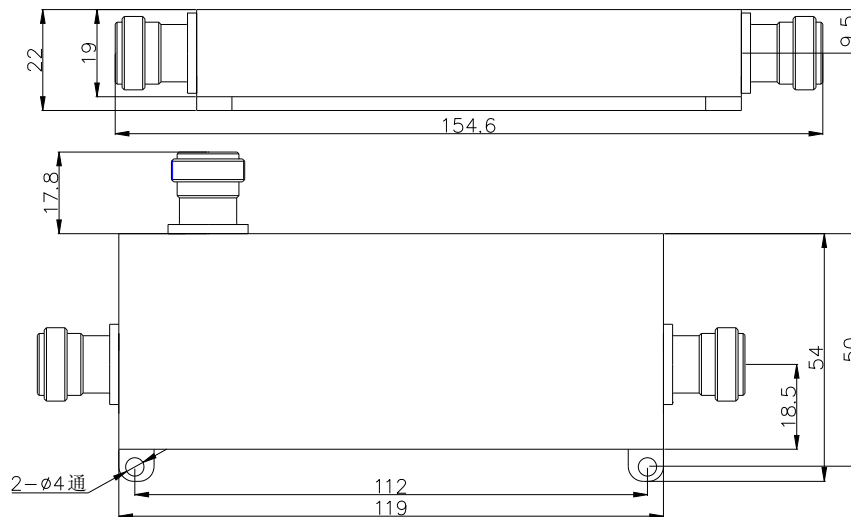
25dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	25±1
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



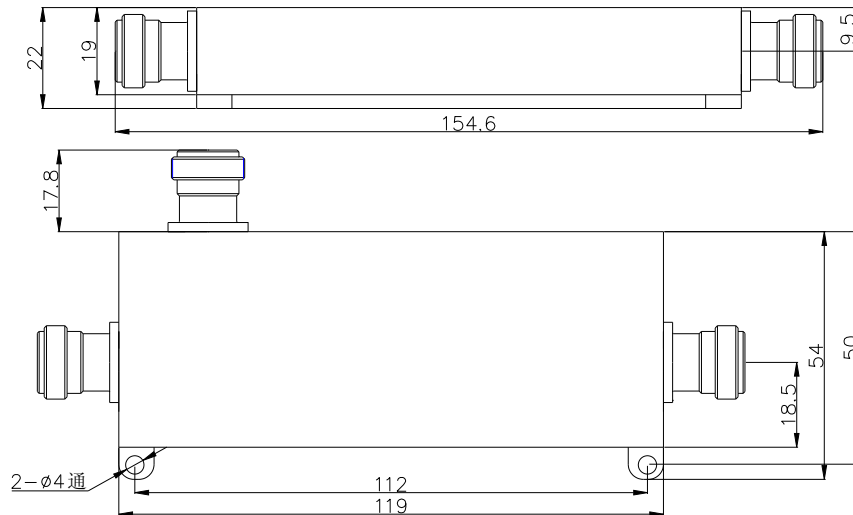
30dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	30±1
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



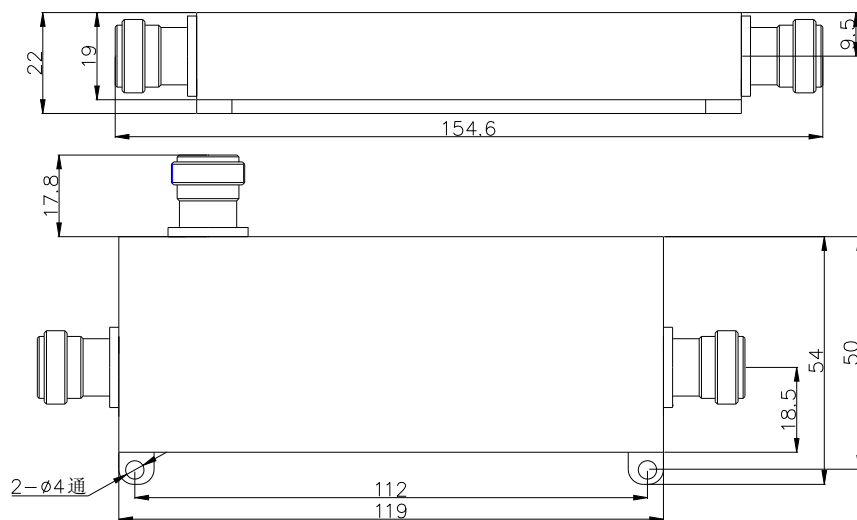
40dB (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800-2500
Coupling (dB)	40±1.5
Return Loss (dB)	>18
Insertion loss (dB)	≤0.2
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



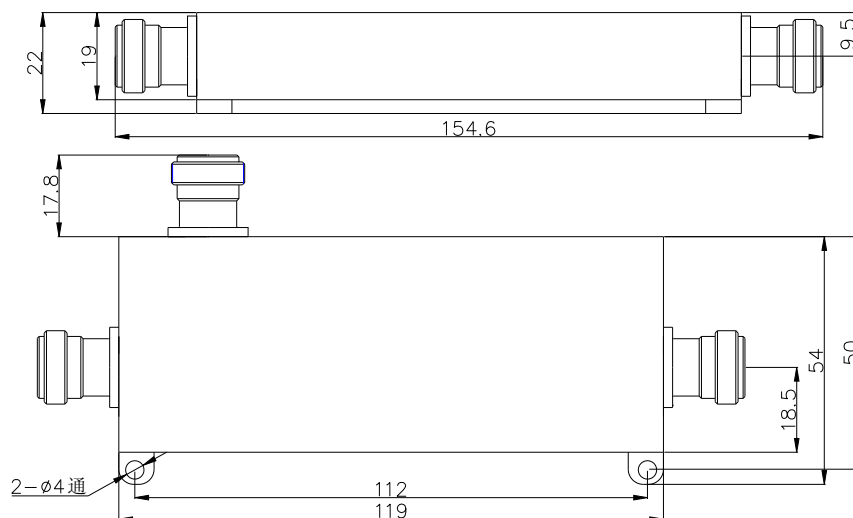
5dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	5±0.8
Return Loss (dB)	>18
Insertion loss (dB)	≤2.1
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



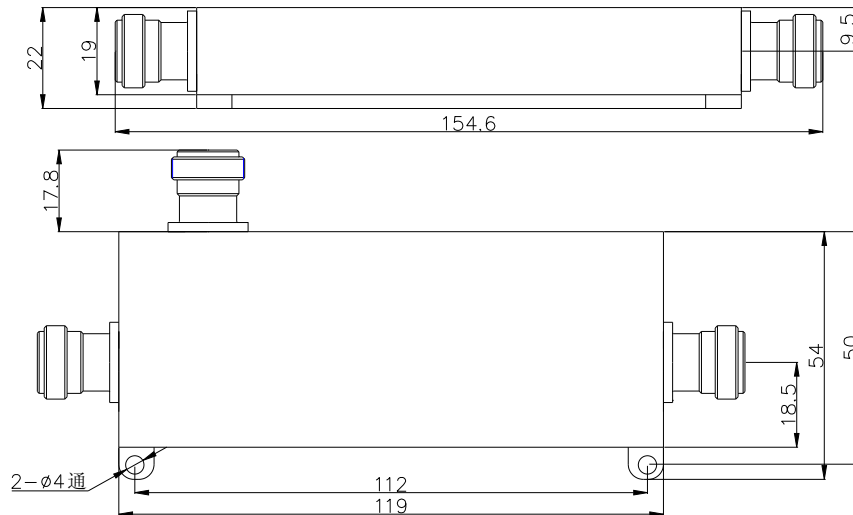
6dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	6±0.8
Return Loss (dB)	>18
Insertion loss (dB)	≤1.65
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



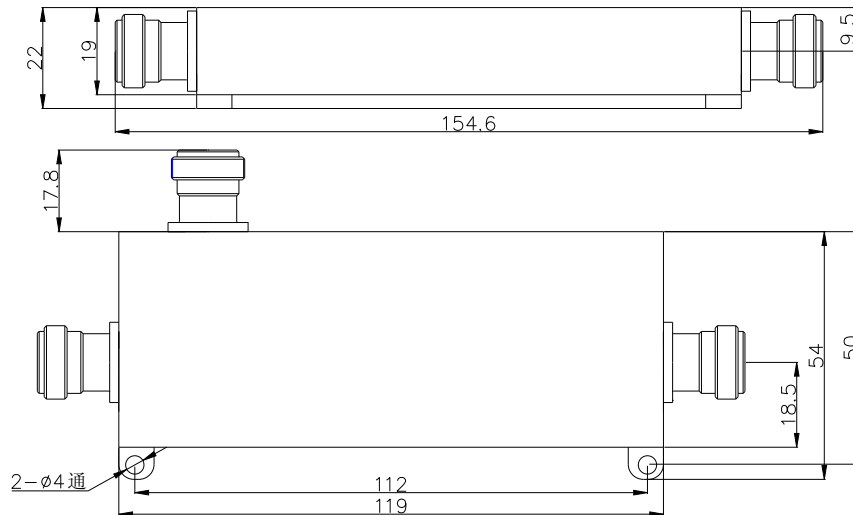
7dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	7±0.8
Return Loss (dB)	>18
Insertion loss (dB)	≤1.4
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



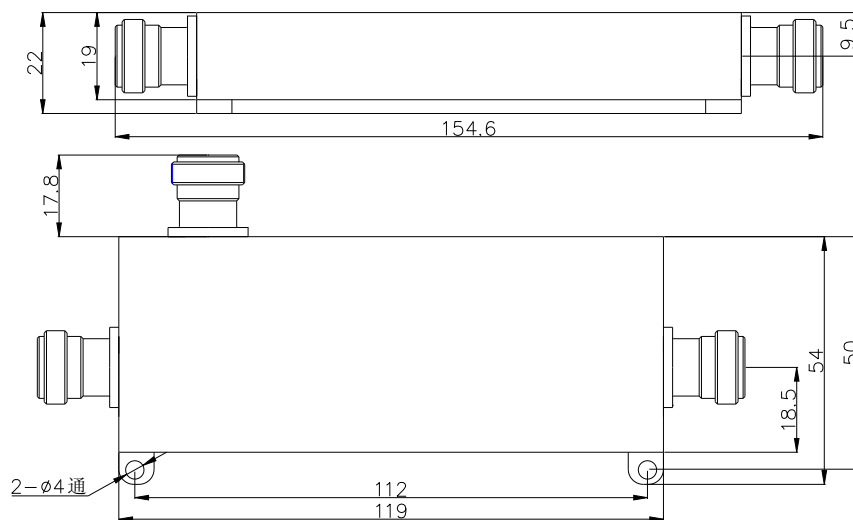
10dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	10±1
Return Loss (dB)	>18
Insertion loss (dB)	≤0.75
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



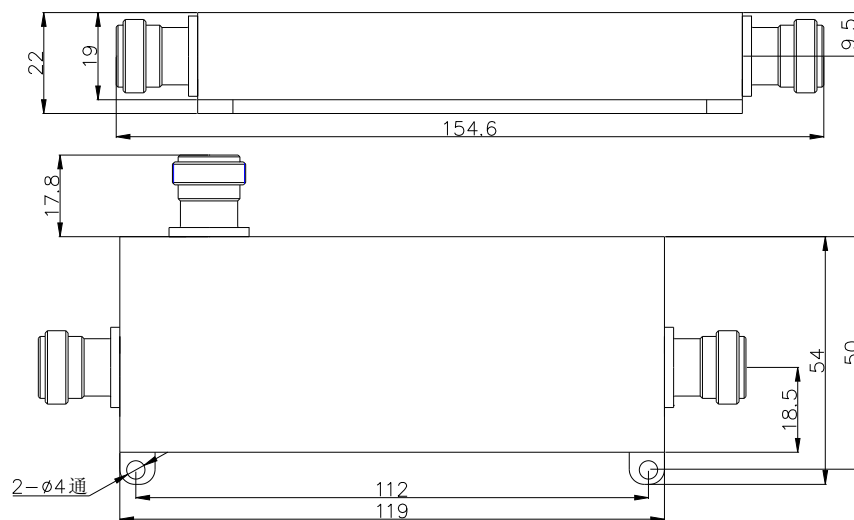
15dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	15±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.4
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



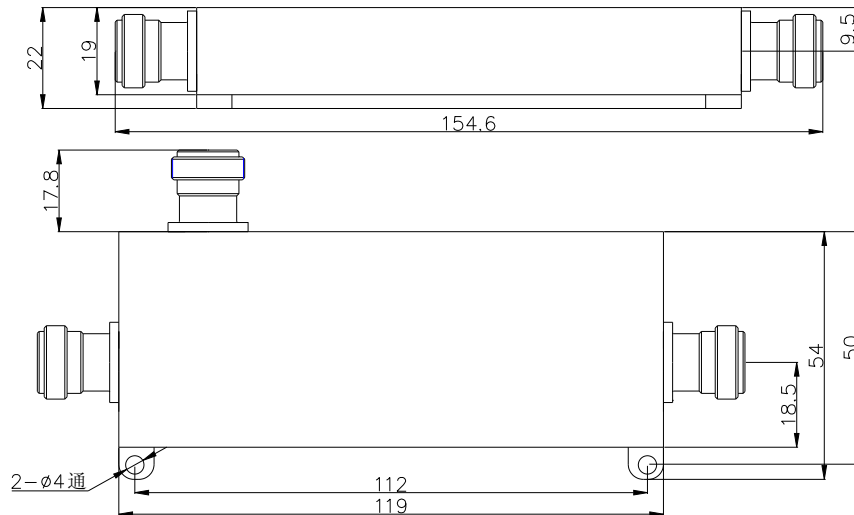
20dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	20±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



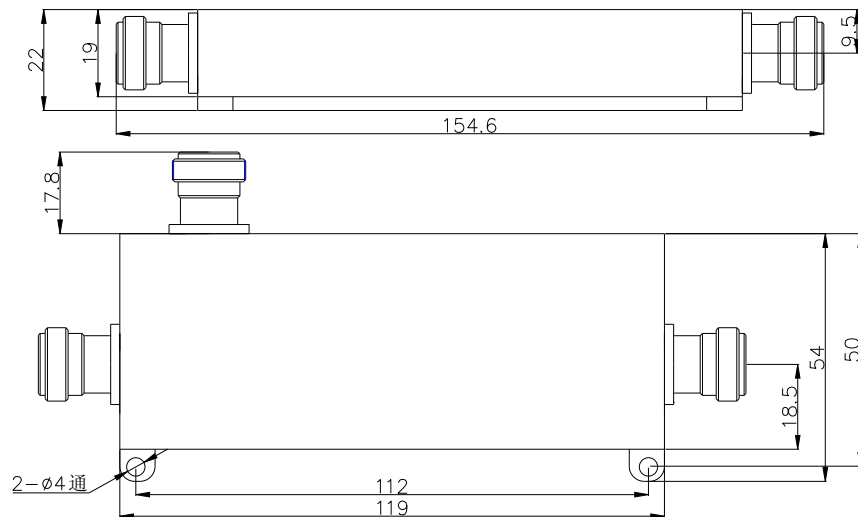
25dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	25±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



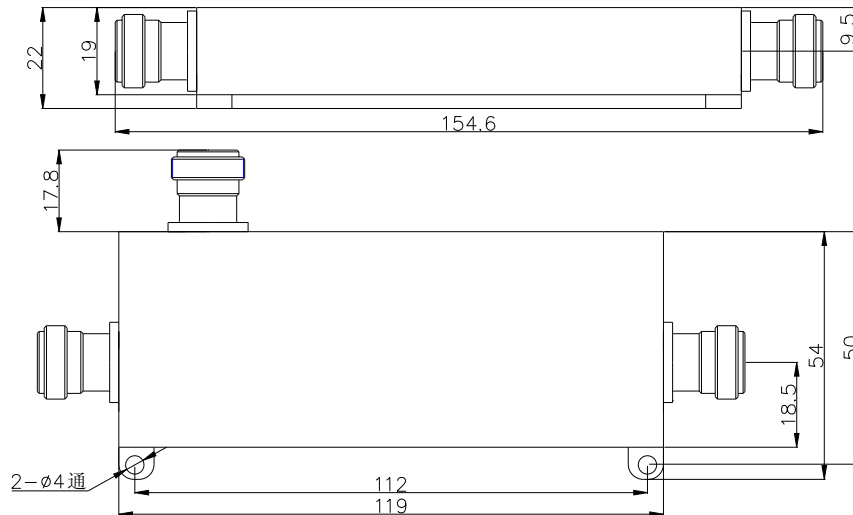
30dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	30±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



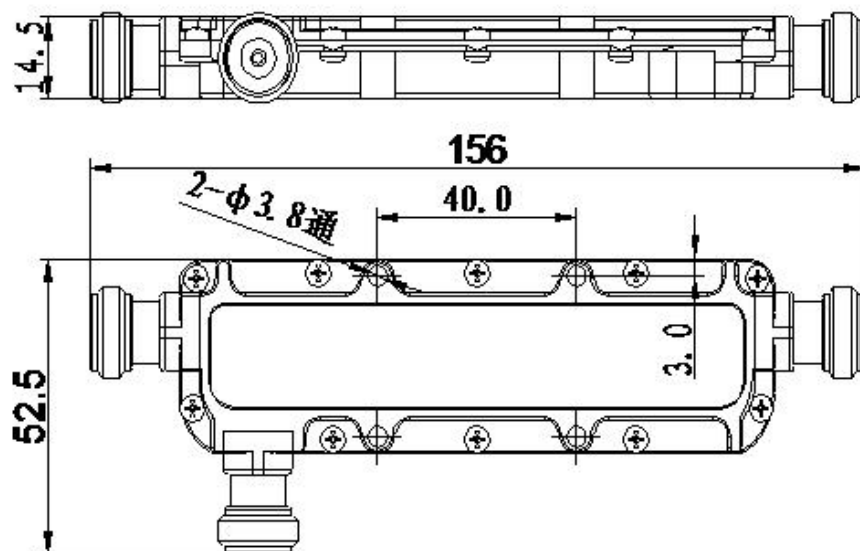
40dB (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	40±1.5
Return Loss (dB)	>18
Insertion loss (dB)	≤0.2
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-140dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
International Protection	IP65
Dimensions (mm)	154.6×71.8×22
Weight (g)	350



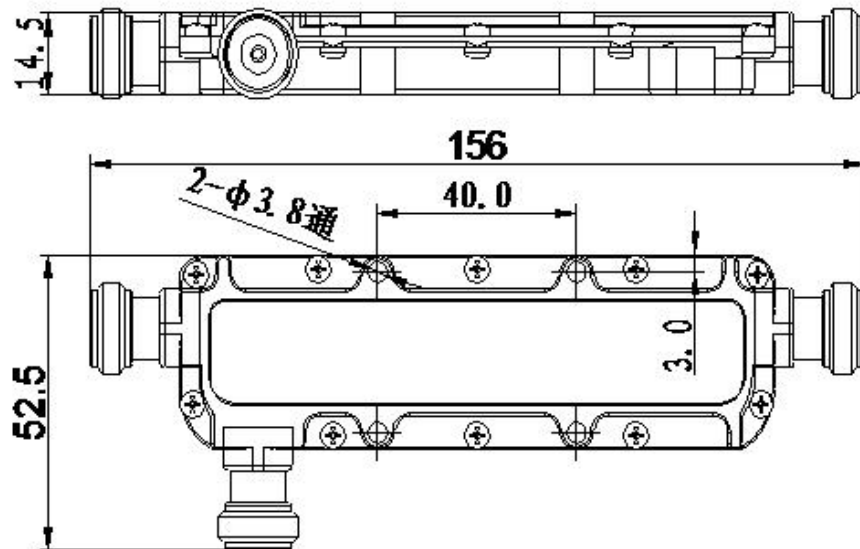
5dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	5±0.8
Return Loss (dB)	>18
Insertion loss (dB)	≤2.1
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



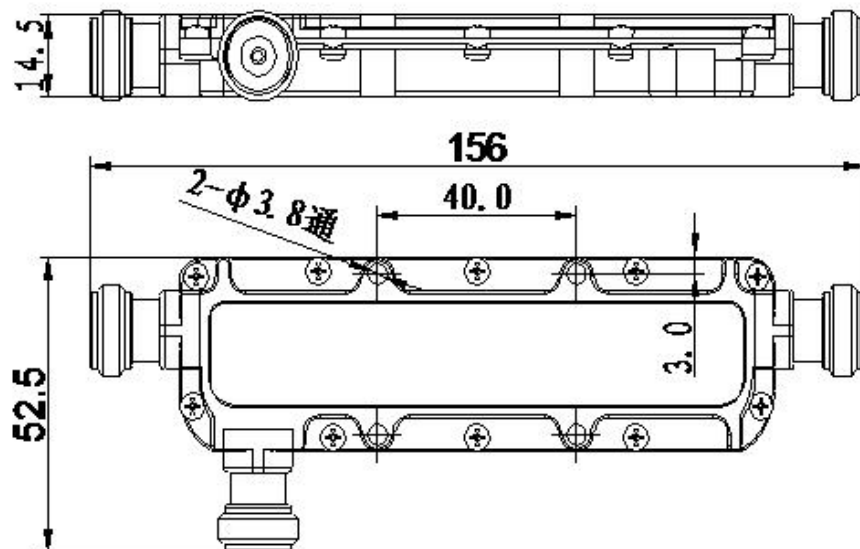
6dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	6±0.8
Return Loss (dB)	>18
Insertion loss (dB)	≤1.65
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



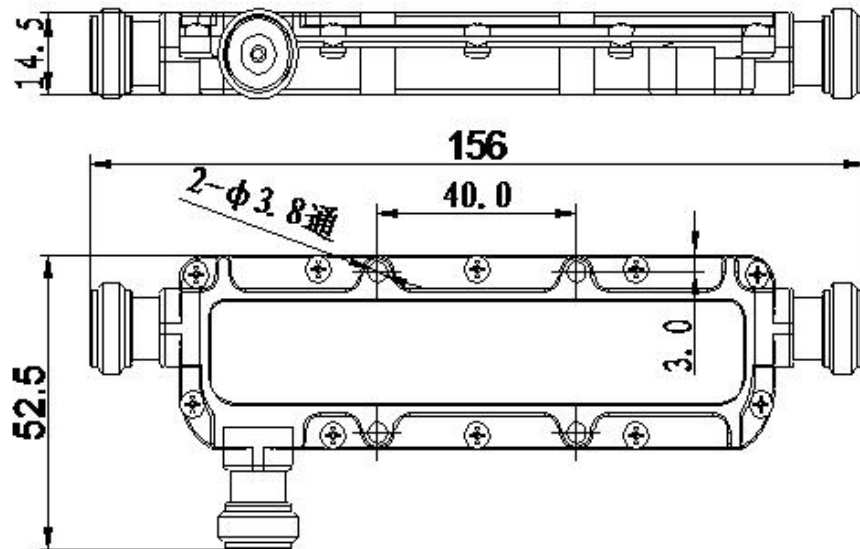
7dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	7±0.8
Return Loss (dB)	>18
Insertion loss (dB)	≤1.4
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



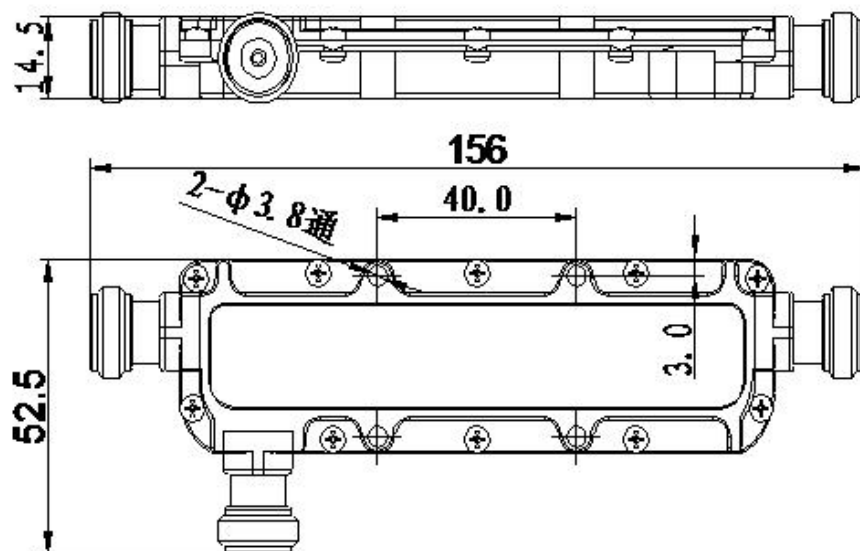
10dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	10±1
Return Loss (dB)	>18
Insertion loss (dB)	≤0.75
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



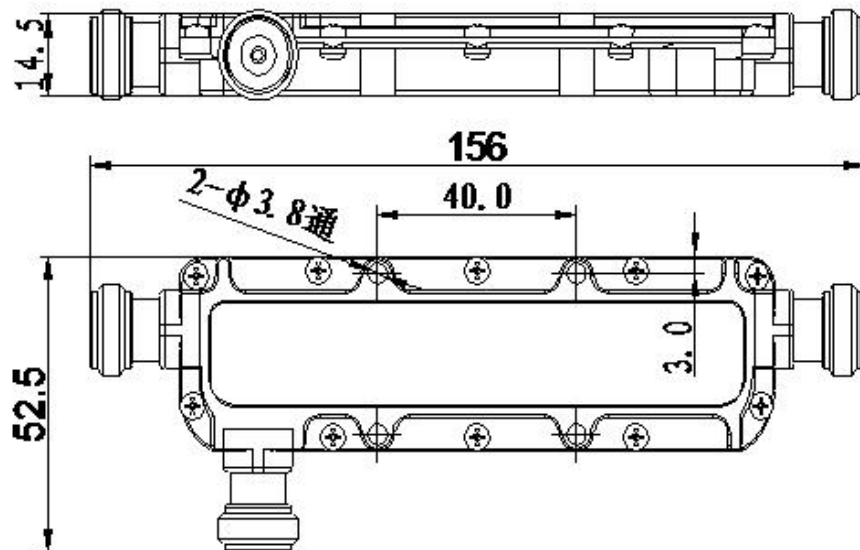
15dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	15±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.4
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



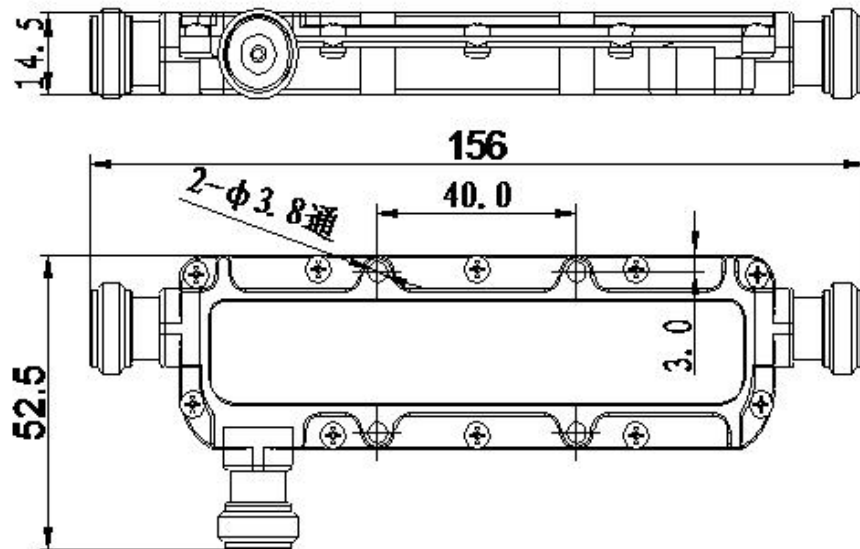
20dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	20±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



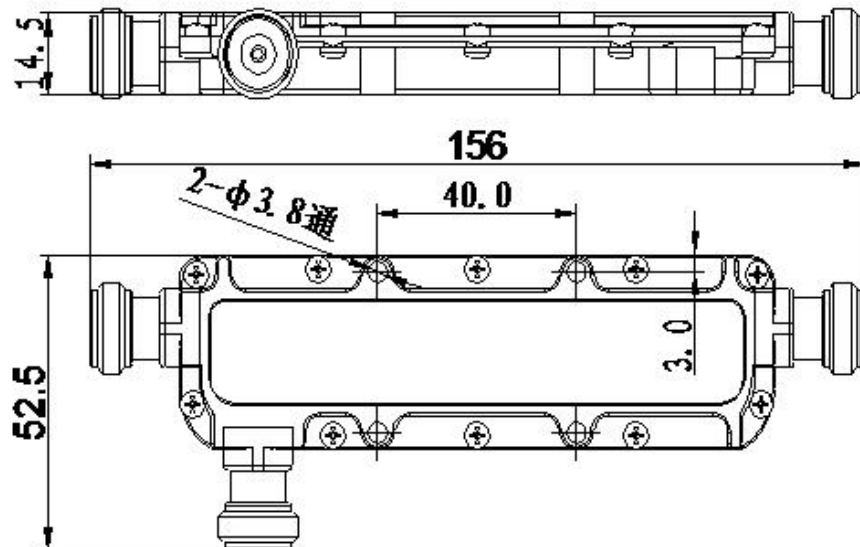
25dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	25±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



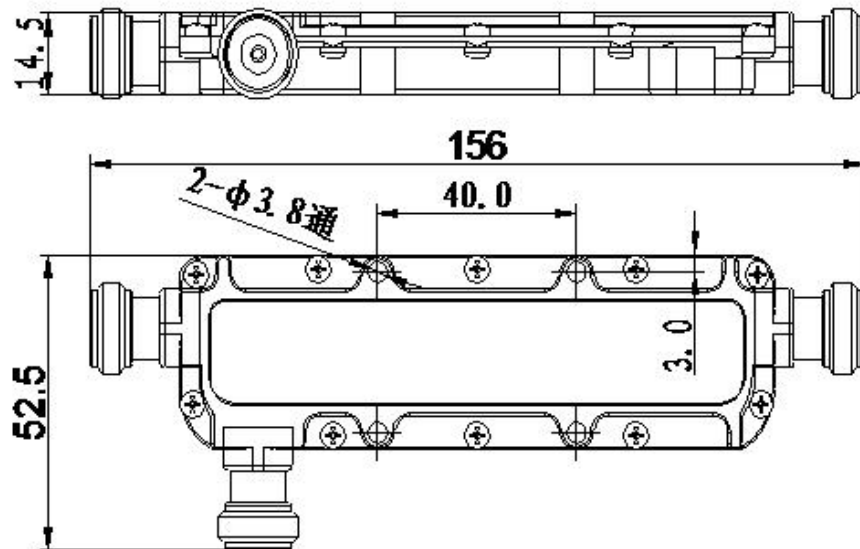
30dB (698-2700MHz, IM3=-130dB)

Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	30±1.2
Return Loss (dB)	>18
Insertion loss (dB)	≤0.3
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



40dB (698-2700MHz, IM3=-130dB)

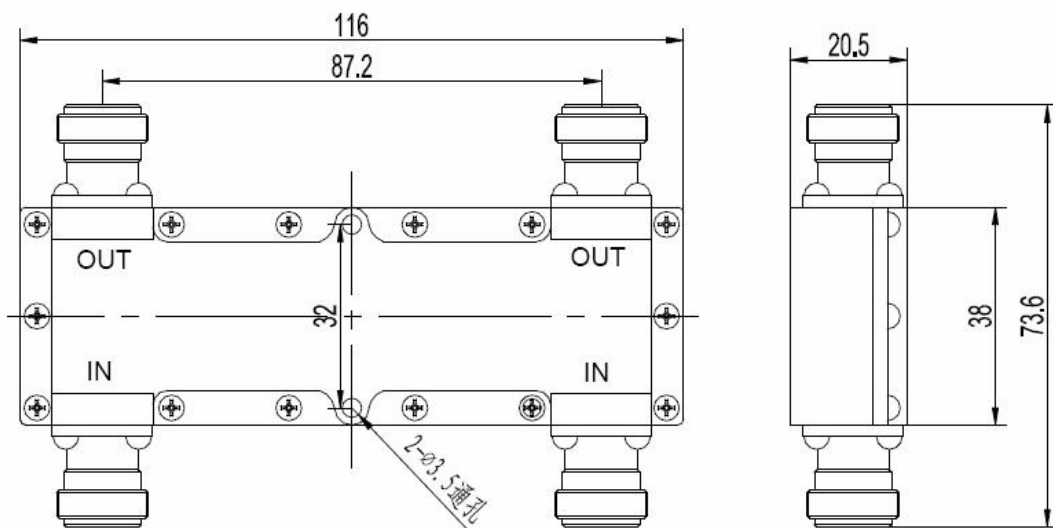
Parameter	Specifications
Frequency Range (MHz)	698-2700
Coupling (dB)	40±1.5
Return Loss (dB)	>18
Insertion loss (dB)	≤0.2
Directivity (dB)	≥18
Impedance (Ω)	50
PIM (dBc)	≤-130dBc@2×43dBm
Connector	N (f)
Power Handling (W)	200
Temperature (°C)	-25~65
Relative Humidity (%)	5~95
Dimensions (mm)	156×52.5×14.5
Weight (g)	138±5



Hybrid Coupler

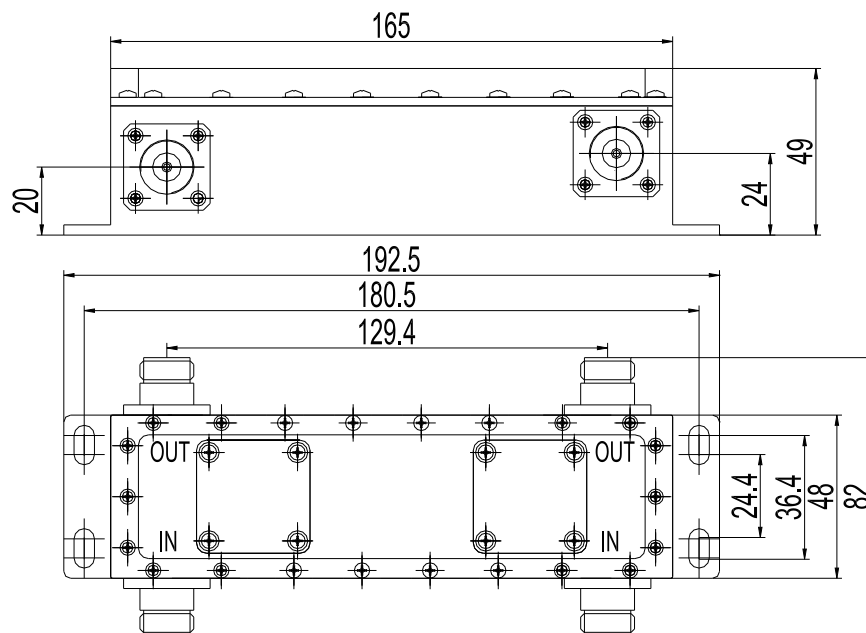
3dB Bridge (800-2500MHz, N Connector)

Parameter	Specifications
Frequency Range (MHz)	800~2500
Insertion loss (dB)	≤3.5
Ripple in Band (dB)	≤0.5
Isolation (dB)	≥25
Impedance (Ω)	50
Return Loss (dB)	>18
PIM (dBc)	≤-140@2×43dBm
Connector	N (f)
Temperature (°C)	-20~55
Power Handling (W)	200
RH (%)	5~95
Weight (g)	247
Dimensions (mm)	116×38×20.5



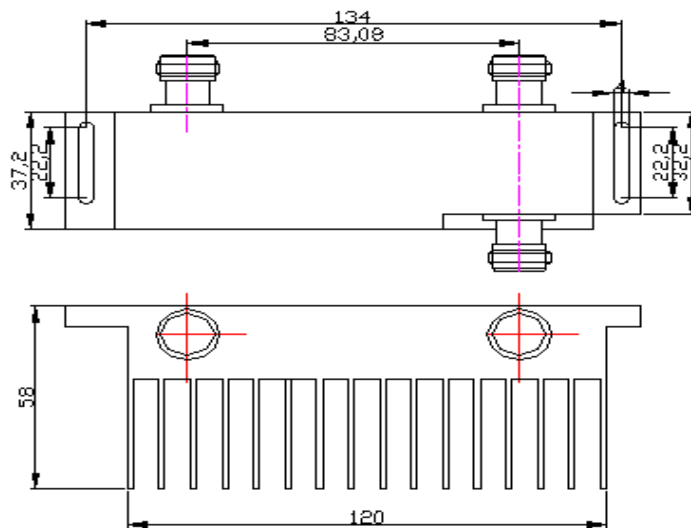
3dB Bridge (698-2700MHz, N Connector)

Parameter	Specifications
Frequency Range (MHz)	698~2700
Insertion loss (dB)	≤3.5
Ripple in Band (dB)	≤0.8
Isolation (dB)	≥23
Impedance (Ω)	50
Return Loss (dB)	>18
PIM (dBc)	≤-140@2×43dBm
Connector	N (f)
International Protection	IP65
Temperature (°C)	-20~55
Power Handling (W)	200
RH (%)	5~95
Weight (g)	740
Dimensions (mm)	192.5×48×49



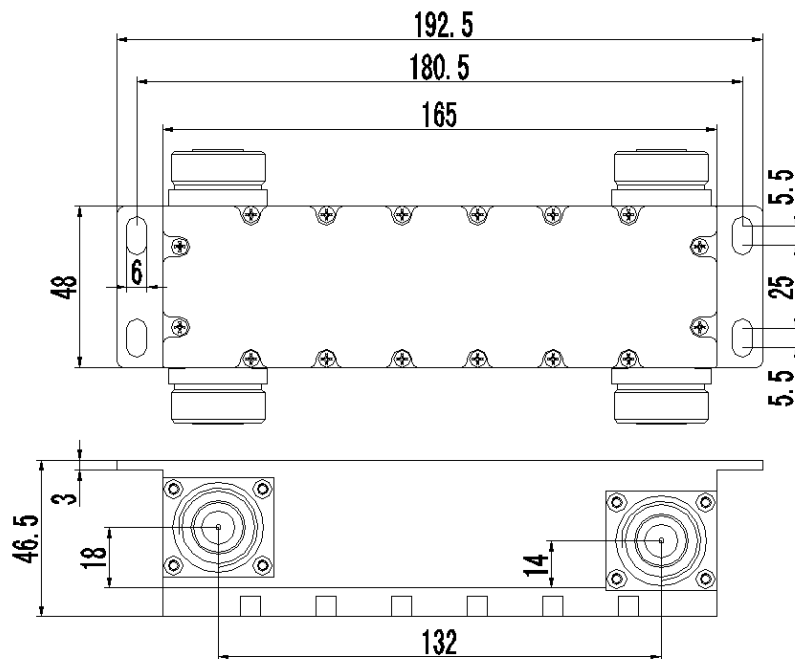
3dB 2:1 Bridge (698-2700MHz, N Connector)

Parameter	Specifications
Frequency Range (MHz)	698~2700
Insertion loss (dB)	≤0.6
Ripple in Band (dB)	≤0.8
Isolation (dB)	≥23
Impedance (Ω)	50
Return Loss (dB)	>18
PIM (dBc)	≤-120@2×43dBm
Connector	N (f)
Temperature (°C)	-20~55
Power Handling (W)	200
RH (%)	5~95
Weight (g)	420
Dimensions (mm)	134×37×58



3dB Bridge (698-2700MHz, DIN Connector)

Parameter	Specifications
Frequency Range (MHz)	698~2700
Insertion loss (dB)	≤3.5
Ripple in Band (dB)	≤0.8
Isolation (dB)	≥23
Impedance (Ω)	50
Return Loss (dB)	>18
PIM (dBc)	≤-150@2×43dBm
Connector	DIN (f)
International Protection	IP65
Temperature (°C)	-20~55
Power Handling (W)	200
RH (%)	5~95
Weight (g)	1050
Dimensions (mm)	192.5×48×49



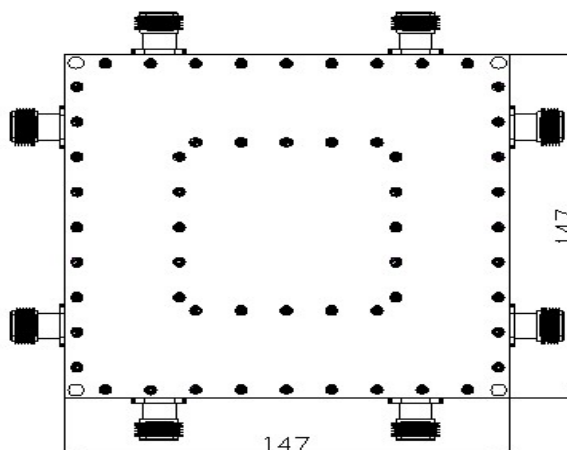
4X4 Port Hybrid Coupler (698-2700MHz)

Frequency(MHz)	698-2700MHz
Insertion Loss(dB)	$\cong 7.0$
Isolation(dB)	$\cong 20$
VSWR	$\cong 1.3:1$
Power Capacity(W)	100
Impedance(ohm)	50
PIM (dBc)	$\leq -120@2 \times 43\text{dBm}$
RF Connector	N (f)
Operating Temperature(deg)	-20~+65
Color	Black-plated or Silvery-white Plated
IP Grade	IP54
Relative Humidity	5%-95%
Dimensions (mm) / Weight(kg)	277*185*27 / 1.145



Micro-Strip 4X4 Port Hybrid Coupler (698-2700MHz)

Frequency(MHz)	698-2700MHz
Insertion Loss(dB)	$\cong 7.0$
Isolation(dB)	$\cong 19$
VSWR	$\cong 1.3:1$
Power Capacity(W)	100
Impedance(ohm)	50
PIM (dBc)	$\leq -120@2 \times 43\text{dBm}$
RF Connector	N (f)
Operating Temperature(deg)	-35~+70
Color	Black-plated or Silvery-white Plated
IP Grade	IP60 or IP65
Relative Humidity	5%-95%
Weight(kg)	1.145

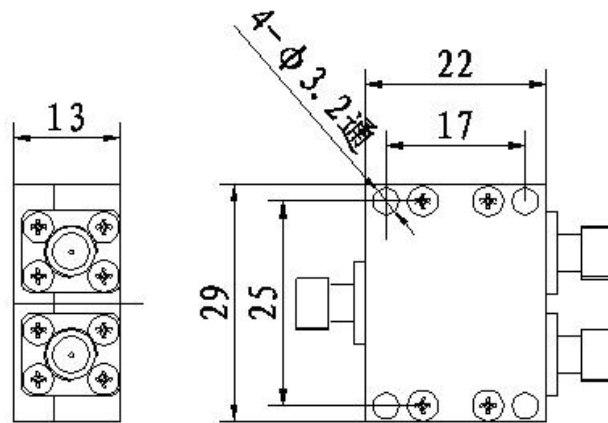


Microstrip Power Divider

Two Divider (2-8GHz)

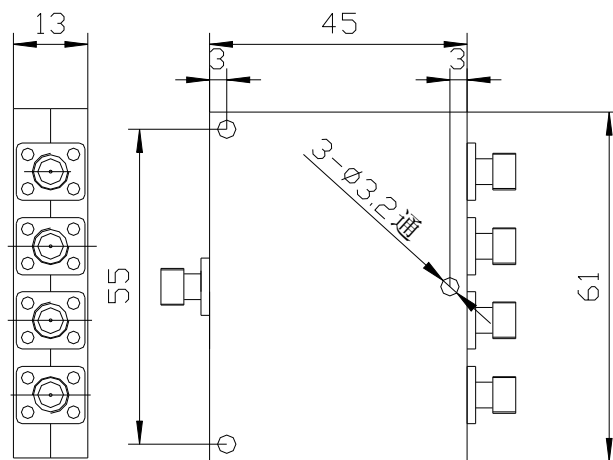
Parameter	Specifications
Frequency (GHz)	2~8
Amplitude Balance (dB)	≤ 0.6

Phase Balance	$\leq \pm 5^\circ$
Insertion loss (dB)	≤ 0.8
Return Loss (dB)	> 18
Isolation (dB)	$\geq 20\text{dB}$
Impedance (Ω)	50
Power Handling (W)	50
Connector	SMA (f)
Temperature ($^\circ\text{C}$)	-20~60
RH (%)	5 ~ 95
Appearance	Brushed surface
Dimensions	22×29×13
Weight (g)	35



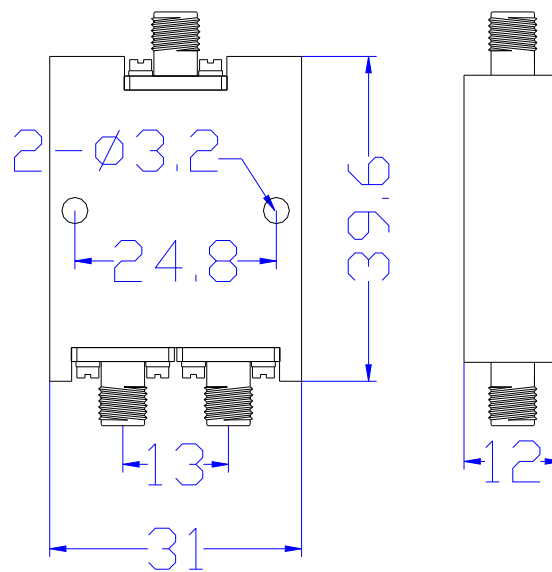
Four Divider (2-8GHz)

Parameter	Specifications
Frequency (GHz)	2~8
Amplitude Balance(dB)	≤0.6
Phase Balance	≤±5°
Insertion loss (dB)	≤1.1
Return Loss (dB)	>18
Isolation (dB)	≥20dB
Impedance (Ω)	50
Power Handling (W)	30
Connector	SMA (f)
Temperature (°C)	-20~60
RH (%)	5~95
Appearance	Brushed surface
Dimensions	45×61×13
Weight (g)	90



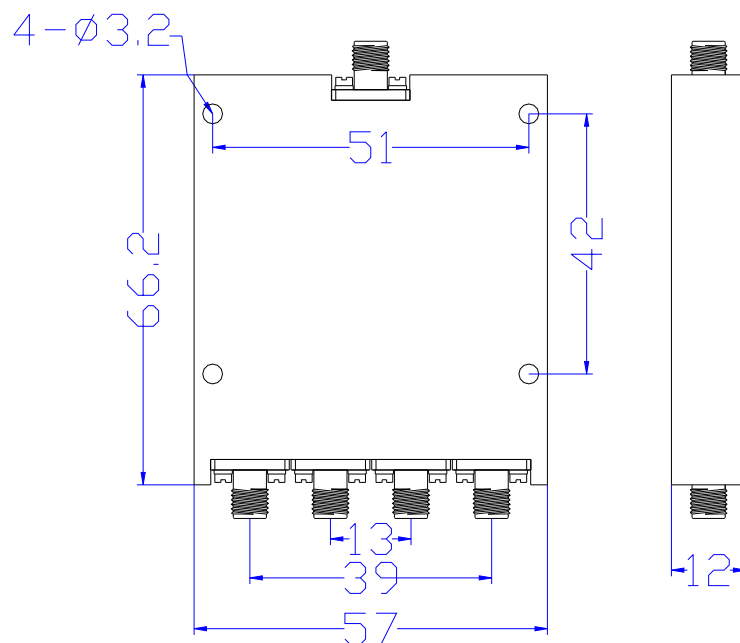
Two Divider (0.5-6GHz)

Parameter	Specifications
Frequency (GHz)	0.5~6
Amplitude Balanc (dB)	≤0.3
Phase Balance	≤±5°
Insertion loss (dB)	≤0.7
Return Loss (dB)	>18
Isolation (dB)	≥18dB
Impedance (Ω)	50
Power Handing (W)	10
Connector	SMA (f)
Temperature (°C)	-55~85
RH (%)	5~95
Appearance	Brushed surface
Dimensions	31×39.6×12
Weight (kg)	



Four Divider (0.5-6GHz)

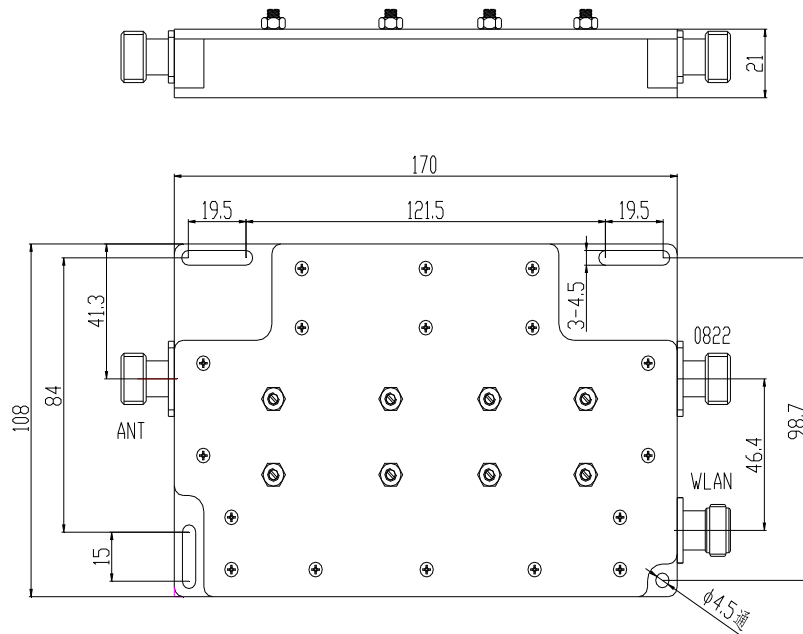
Parameter	Specifications
Frequency (GHz)	0.5~6
Amplitude Balance (dB)	≤0.3
Phase Balance	≤±5°
Insertion loss (dB)	≤1.5
Return Loss (dB)	>18
Isolation (dB)	≥18dB
Impedance (Ω)	50
Power Handling (W)	10
Connector	SMA (f)
Temperature (°C)	-55~85
RH (%)	5~95
Appearance	Brushed surface
Dimensions	57×66×12
Weight (kg)	



Combiner

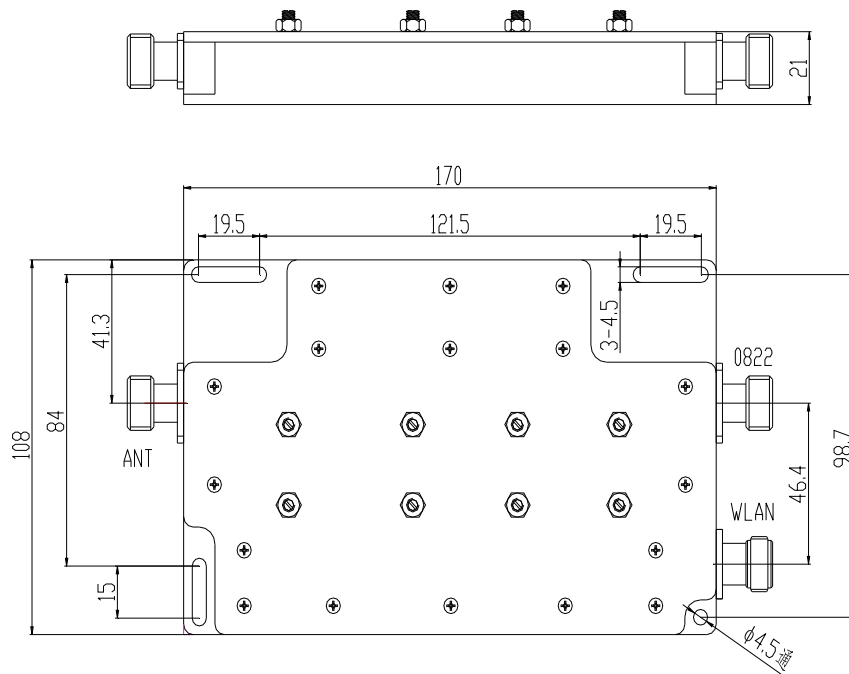
Dual Band (800-2200/2400-2500MHz, -120dB)

Parameter	Specifications	
Frequency Range (MHz)	800-2200	2400~2500
Insertion loss (dB)	≤ 0.5	
Ripple in Band (dB)	≤ 0.45	
Isolation (dB)	≥80@2400-2500	≥80@800~2200
Impedance (Ω)	50	
Return Loss (dB)	>18	
PIM (dBc)	≤-120@2×43dBm	
Connector	N (f)	
Temperature (°C)	-25~65	
Power Handling (W)	100	
RH (%)	5~95	
Weight (kg)	530	
Dimensions (mm)	170×108×21	



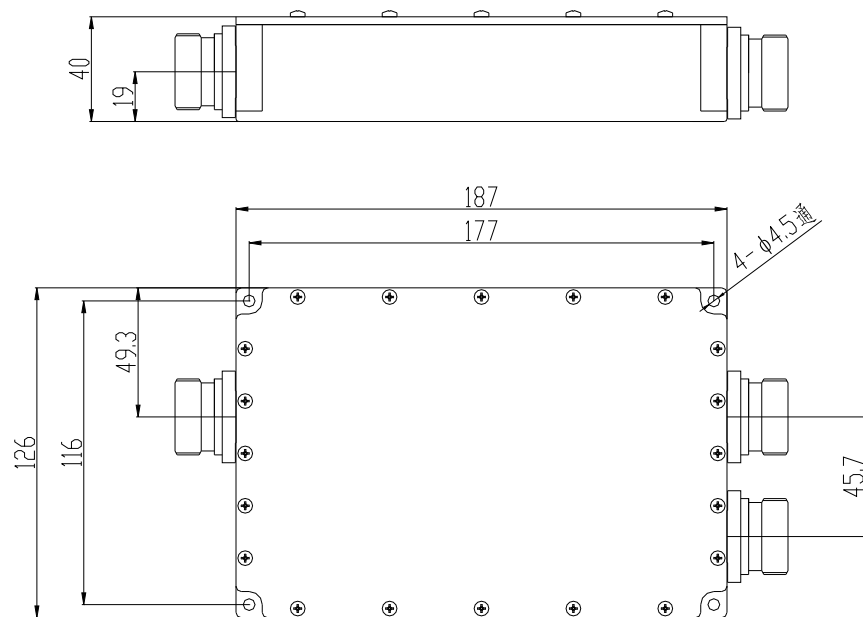
Dual Band (800-2200/2400-2500MHz, -140dB)

Parameter	Specifications	
Frequency Range (MHz)	800-2200	2400~2500
Insertion loss (dB)	≤ 0.5	
Ripple in Band (dB)	≤ 0.45	
Isolation (dB)	≥80@2400-2500	≥80@800~2200
Impedance (Ω)	50	
Return Loss (dB)	>18	
PIM (dBc)	≤-140@2×43dBm	
Connector	N (f)	
Temperature (°C)	-25~65	
Power Handling (W)	100	
RH (%)	5~95	
Weight (kg)	530	
Dimensions (mm)	170×108×21	



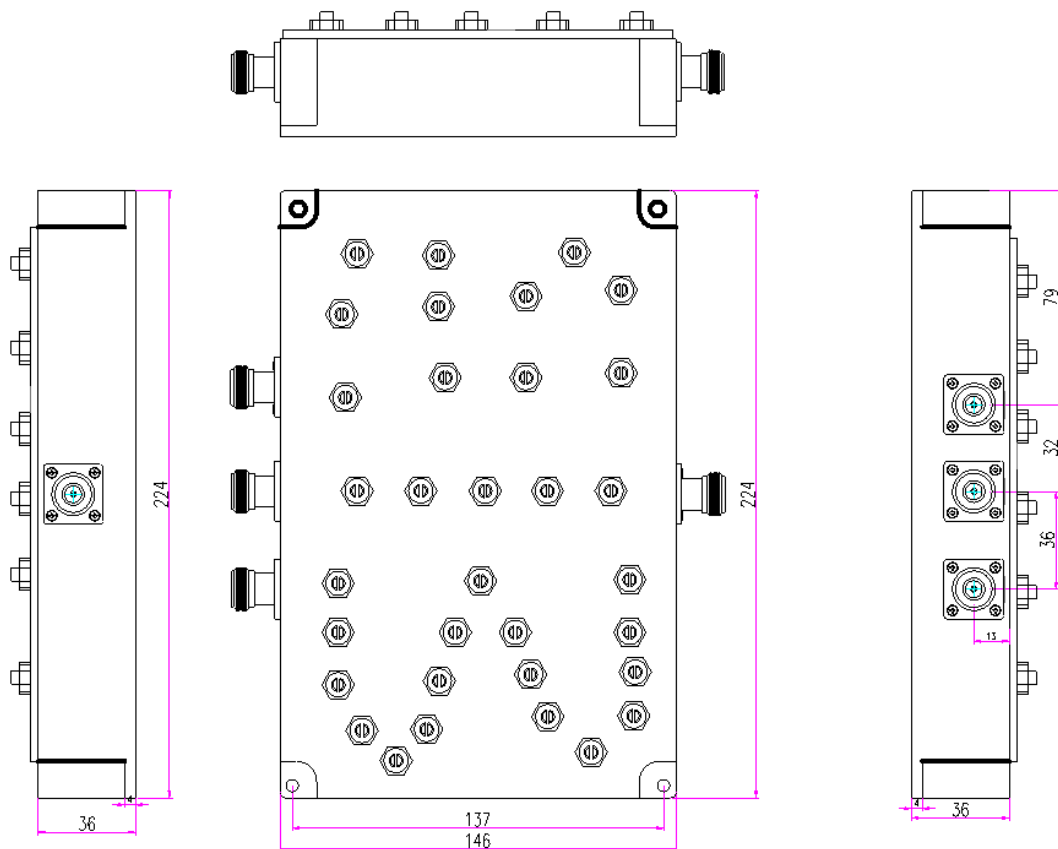
Dual Band (300-2170/2400-2690MHz, -145dB, DIN)

Parameter	Specifications	
Frequency Range (MHz)	300-2170	2400~2690
Insertion loss (dB)	$\leq 0.12@0.3-960$ $\leq 0.20@960-1990$ $\leq 0.30@1990-2170$	$\leq 0.35@2400-2496$ $\leq 0.30@2496-2690$
Isolation (dB)	$\geq 50@0.3-2170$	$\geq 50@2400\sim 2690$
Impedance (Ω)	50	
Return Loss (dB)	>19	
PIM (dBc)	$\leq -145@43dBm \times 2$	
Connector	DIN (f)	
International Protection	IP65	
Temperature ($^{\circ}C$)	$-40\sim 55$	
Power Handling (W)	$300-2170 \geq 600$ $2400\sim 2690 \geq 200$	
RH (%)	5~95	
Weight (kg)	1320	
Dimensions (mm)	186×126×40	



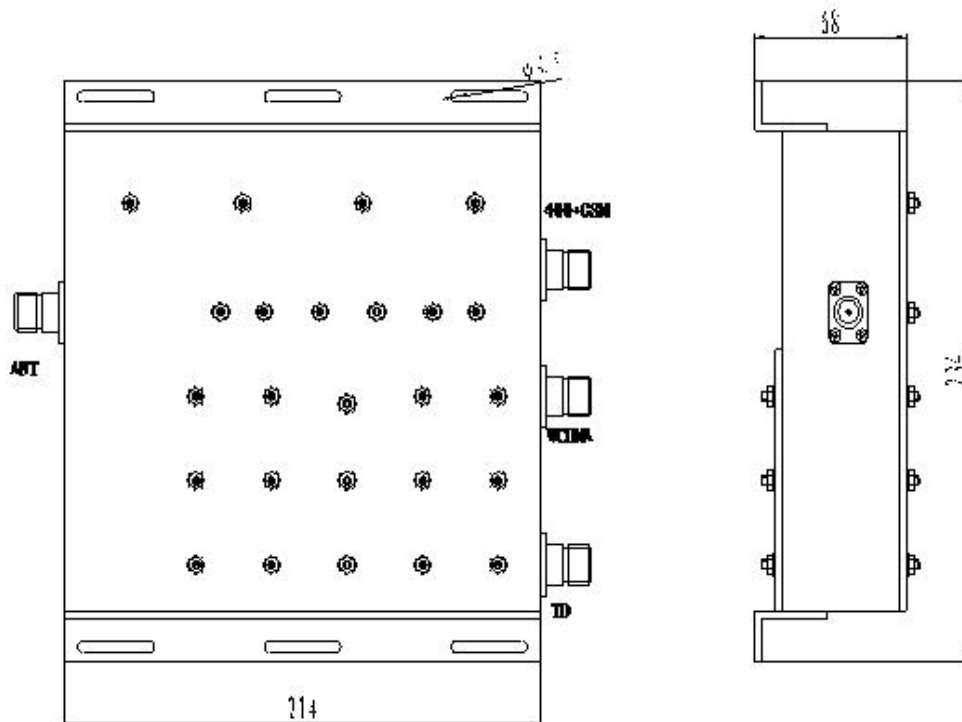
Triple Band – (CDMA&GSM/DCS/WCDMA-120dB, N)

Parameters	CG	DCS	WCDMA
Frequency Range, MHz	820-960	1710-1880	1920-2170
Insertion Loss, dB	≤0.4	≤0.6	≤0.6
Passband Ripple, dB	≤0.4	≤0.4	≤0.4
Isolation, dB	≥80@1710-1880MHz ≥80@1920-2170MHz	≥80@800-960MHz ≥80@1920-2170MHz	≥80@800-960MHz ≥80@1710-1880MHz
VSWR	≤1.3		
Nominal Impedance, Ohm	50		
Intermodulation (IM3)	≤-120dBc		
Maximum Input Power, W	200		
Temperature Range, °C	-25~+55		
Relative Humidity, %	5~95		
Connectors	N (f)		
Color	Black		
Ports Labels	ANT, CG, DCS, WCDMA		



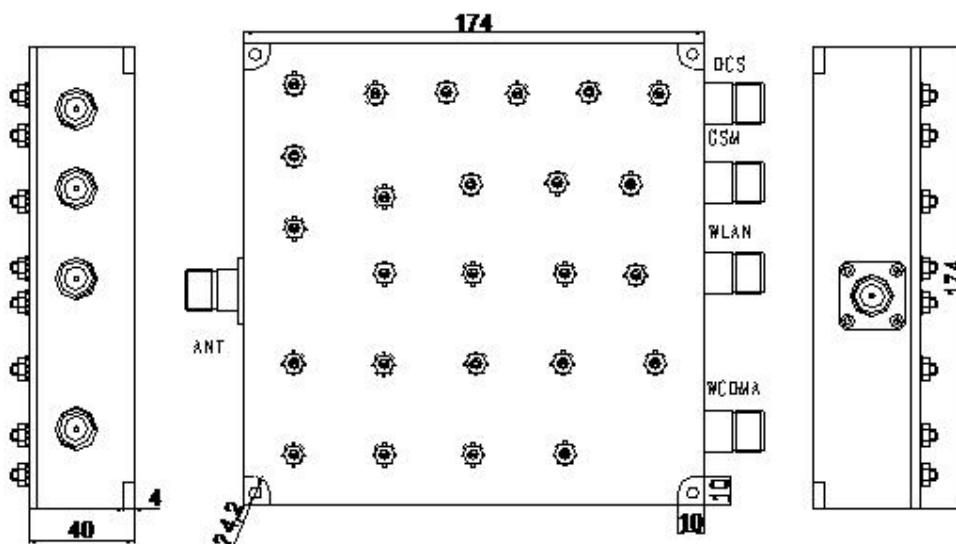
Triple Band (400&GSM/TD/WCDMA, -120dB, N)

Parameter	400&GSM (F1)	TD (F2)	WCDMA (F3)
Frequency Range (MHz)	400-430/825-960	1880-1920 2010-2025	1940-1955 2130-2145
Insertion loss (dB)	$\leq 1.5/\leq 1$	≤ 1.5	≤ 1.5
Ripple in Band (dB)	$\leq 1/\leq 0.7$	≤ 1	≤ 1
Isolation (dB)	$\geq 80@ F2 \& F3$	$\geq 80@ F1 \& F3$	$\geq 80@ F1 \& F2$
Impedance (Ω)	50		
Return Loss (dB)	≥ 18	≥ 18	≥ 18
PIM (dBc)	$\leq -120\text{dBc}@ 2 \times 43\text{dBm}$		
Connector	N (f)		
Temperature ($^{\circ}\text{C}$)	$-20 \sim +65$		
Power Handling (W)	200		
RH (%)	5~95		
Dimensions (mm)	234×214×68		



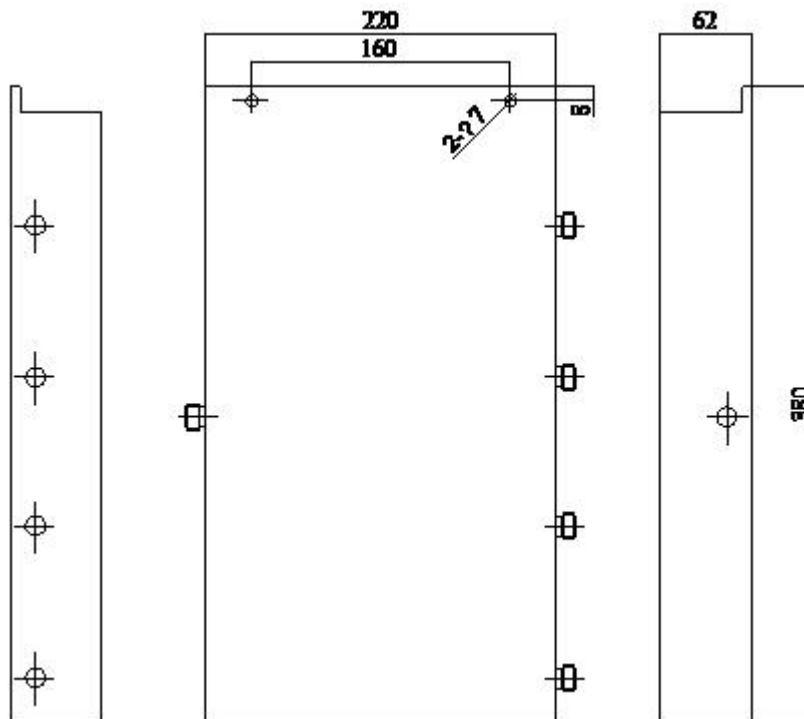
Qua-band (GSM/DCS/WCDMA/WLAN, -120dB, N)

Parameter	GSM (F1)	DCS (F2)	WCDMA (F3)	WLAN (F4)
Frequency Range (MHz)	909~960	1745~1850	1940~2145	2400~2500
Insertion loss (dB)	≤0.8	≤0.8	≤0.8	≤0.8
Ripple in Band (dB)	≤0.6	≤0.6	≤0.6	≤0.6
Return Loss (dB)	≥18			
Isolation (dB)	≥80@ F2& F3& F4	≥80@F1 ≥80@F3& F4	≥80@ F1& F2 ≥80@ F4	≥80@ F1& F2& F3
PIM (dBc)	≤-120 @ 2×43dBm			
Power Handling (W)	100			
Temperature (°C)	-20~+65			
Impedance (Ω)	50			
Connector	N (f)			
RH (%)	5~95			
Dimensions (mm)	174×174×40			



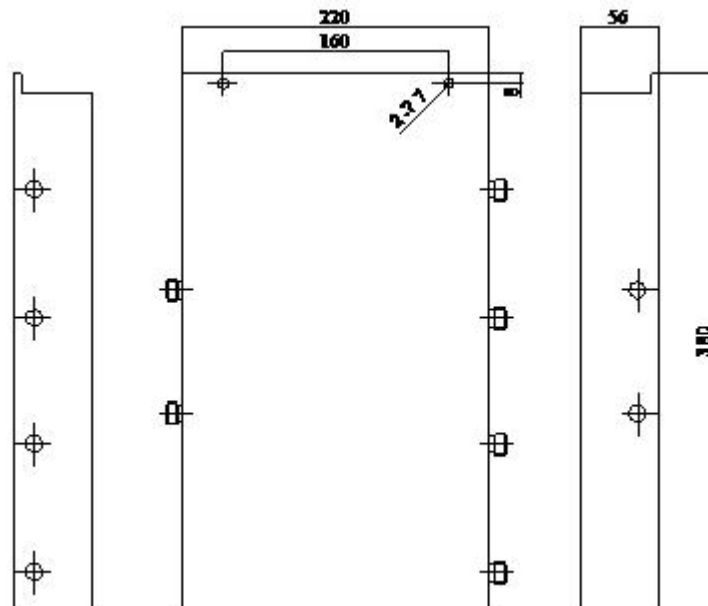
4 IN 1 OUT Combiner (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800~2500
Insertion loss (dB)	≤7
VSWR	≤1.35
Isolation (dB)	≥20
Ripple in Band (dB)	≤0.5
Power Handling (W)	200
Temperature (°C)	-20~60
Impedance (Ω)	50
Connector	N (f)
RH (%)	5~95
Appearance	Paint Black
Dimensions (mm)	380×220×56



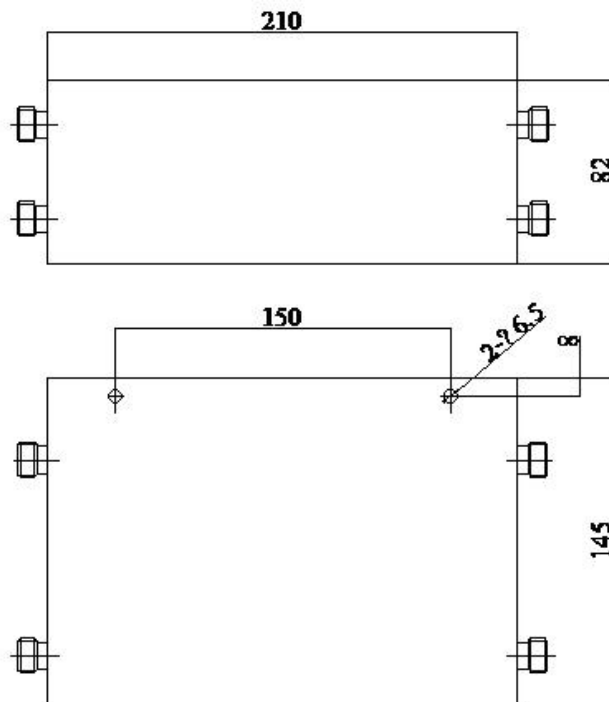
4 IN 2 OUT Combiner (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800~2500
Insertion loss (dB)	≤7
VSWR	≤1.35
Isolation (dB)	≥20
Ripple in Band (dB)	≤0.5
Power Handling (W)	200
Temperature (°C)	-20~60
Impedance (Ω)	50
Connector	N (f)
RH (%)	5~95
Appearance	Paint Black
Dimensions (mm)	380×220×56



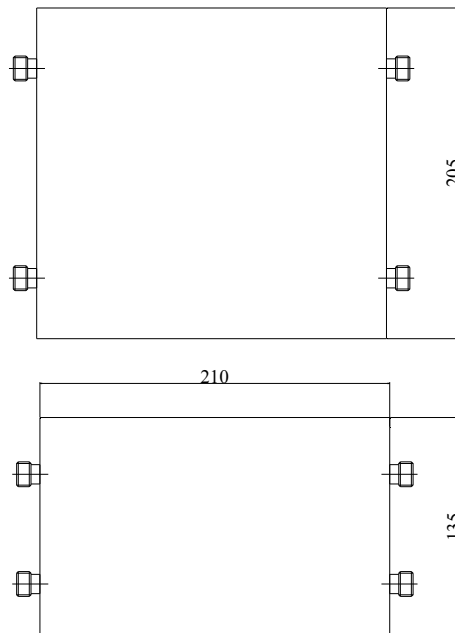
4 IN 4 OUT Combiner (800-2500MHz)

Parameter	Specifications
Frequency Range (MHz)	800~2500
Insertion loss (dB)	≤7
VSWR	≤1.35
Isolation (dB)	≥20
Ripple in Band (dB)	≤0.5
Power Handling (W)	200
Temperature (°C)	-20~60
Impedance (Ω)	50
Connector	N (f)
RH (%)	5~95
Appearance	Paint Black
Dimensions (mm)	210×145×82



4 IN 4 OUT Combiner (698-2700MHz)

Parameter	Specifications
Frequency Range (MHz)	698~2700
Insertion loss (dB)	≤7.2
Ripple in Band (dB)	≤0.8
Isolation (dB)	≥23
Impedance (Ω)	50
Return Loss (dB)	>18
PIM (dBc)	≤-140@2×43dBm
Connector	N (f) or DIN (f)
International Protection	IP65
Temperature (°C)	-20~55
Power Handling (W)	200
RH (%)	5~95
Dimensions (mm)	210×205×135
Weight (g)	740

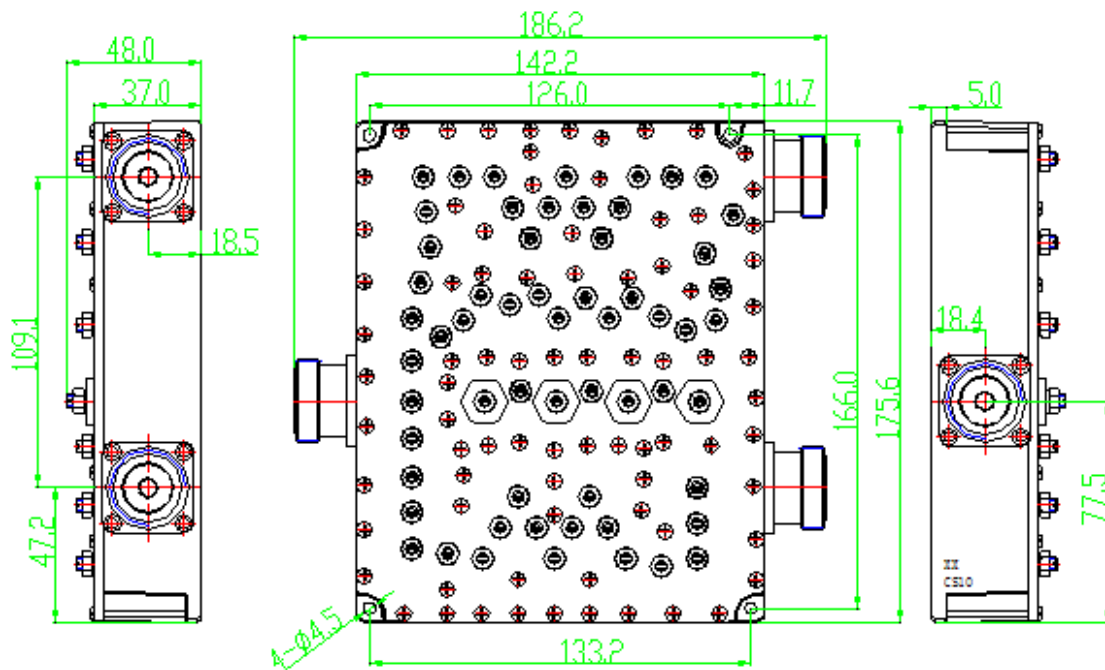


4G Combiners for China Mobile

2 IN 1 OUT (GSM+DCS/TD-SCDMA) DIN Connector

S-X14022C

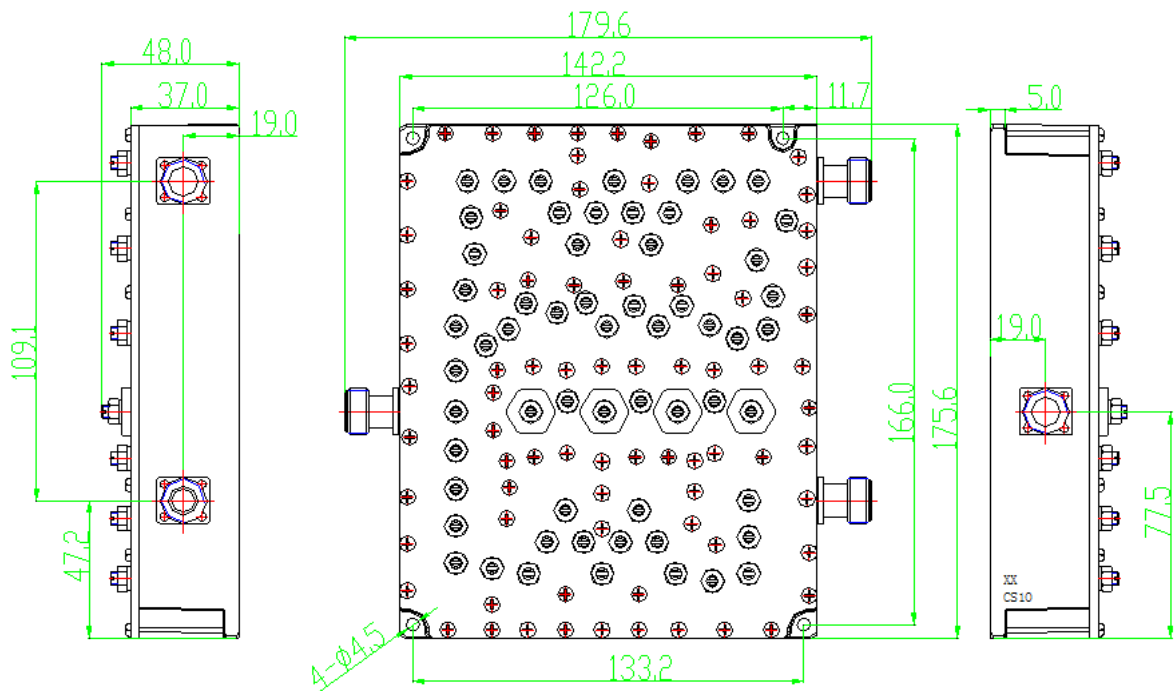
Parameters	GSM&DCS		TD	
	Frequency (MHz)	885~960	1710~1830	1880~2025
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤0.6
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤0.5
Ports Isolation (dB)	≥80			
VSWR	≤1.25			
3 rd PIM	≤-145dBc@2*43dBm			
5 th PIM	≤-160dBc@2*43dBm			
Impedance (Ω)	50			
Connector	DIN-F			
Power Rated (W)	N: 300W DIN: 500W			
Peek Power	N≥1300W DIN≥1800W			
Temperature (°C)	-10~+55			
Color	Black			



2 IN 1 OUT (GSM+DCS/TD-SCDMA) N Connector

S-X14022D

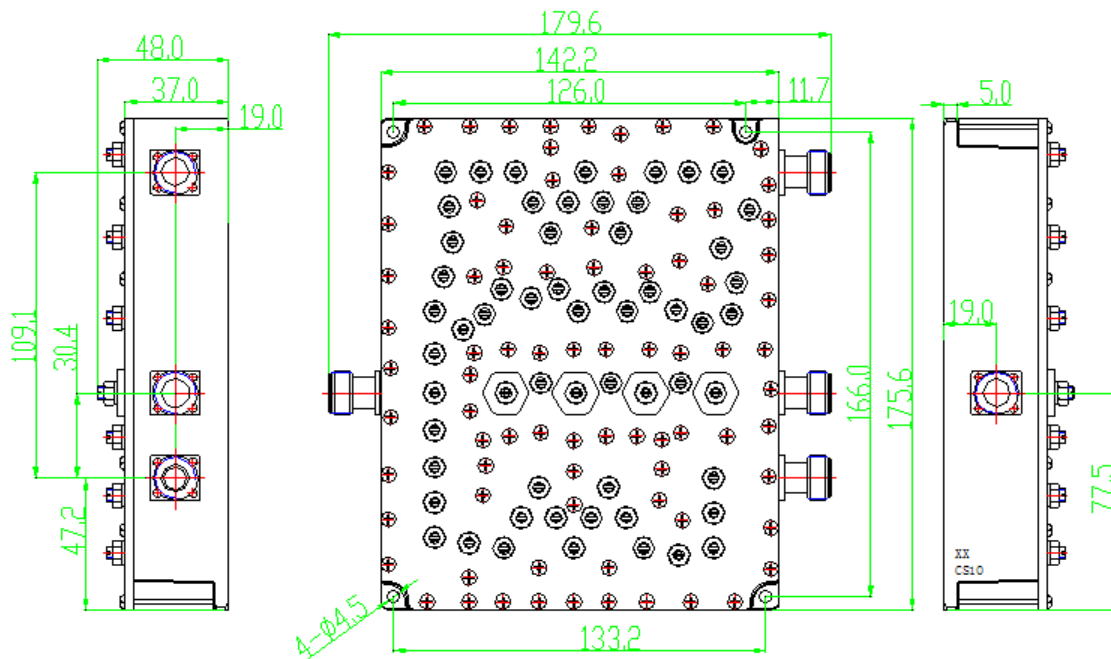
Parameters	GSM&DCS		TD	
	Frequency (MHz)	885~960	1710~1830	1880~2025
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤0.6
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤0.5
Ports Isolation (dB)	≥80			
VSWR	≤1.25			
3 rd PIM	≤-145dBc@2*43dBm			
5 th PIM	≤-160dBc@2*43dBm			
Impedance (Ω)	50			
Connector	N-F			
Power Rated (W)	N: 300W DIN: 500W			
Peek Power	N≥1300W DIN≥1800W			
Temperature (°C)	-10~+55			
Color	Black			



3 IN 1 OUT (GSM/DCS/TD-SCDMA)

S-X14022F

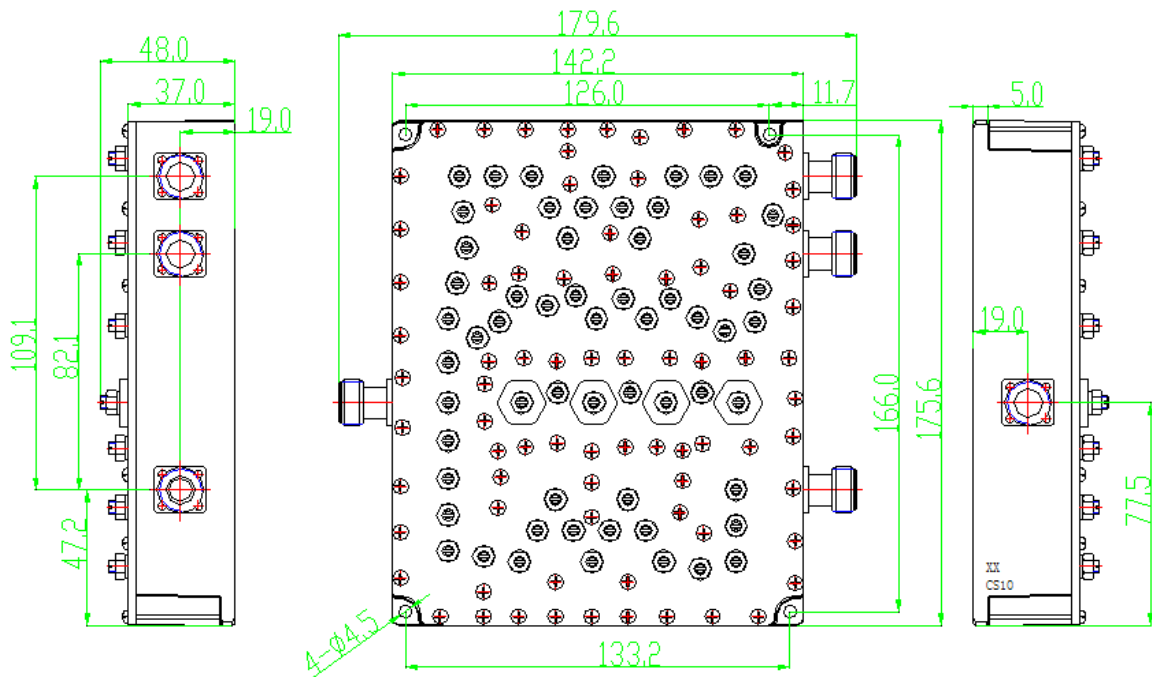
Parameters	GSM	DCS	TD	
Frequency (MHz)	885~960	1710~1830	1880~2025	2300~2380
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤0.6
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤0.5
Ports Isolation (dB)	≥80			
VSWR	≤1.25			
3 rd PIM	≤-145dBc@2*43dBm			
5 th PIM	≤-160dBc@2*43dBm			
Impedance (Ω)	50			
Connector	N-F			
Power Rated (W)	N: 300W DIN: 500W			
Peek Power	N≥1300W DIN≥1800W			
Temperature (°C)	-10~+55			
Color	Black			



3 IN 1 OUT (GSM&DCS/TD-F&A/TD-E)

S-X14022Y

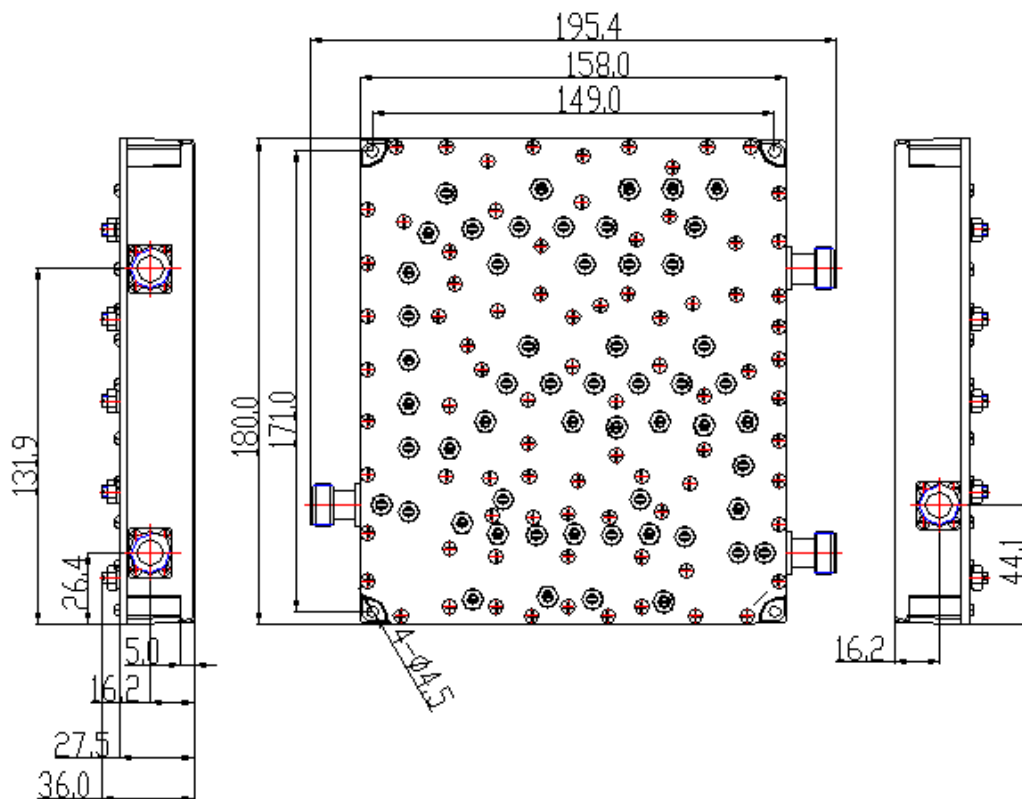
Parameters	GSM&DCS		TD-F&A	TD-E
Frequency (MHz)	885~960	1710~1830	1880~2025	2300~2380
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤0.6
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤0.5
Ports Isolation (dB)	≥80			
VSWR	≤1.25			
3 rd PIM	≤-145dBc@2*43dBm			
5 th PIM	≤-160dBc@2*43dBm			
Impedance (Ω)	50			
Connector	N-F			
Power Rated (W)	N: 300W DIN: 500W			
Peek Power	N≥1300W DIN≥1800W			
Temperature (°C)	-10~+55			
Color	Black			



2 IN 1 OUT WLAN COMBINER (GSM&DCS&TD-A&TD-F&TD-E/WLAN)

S-X10054A

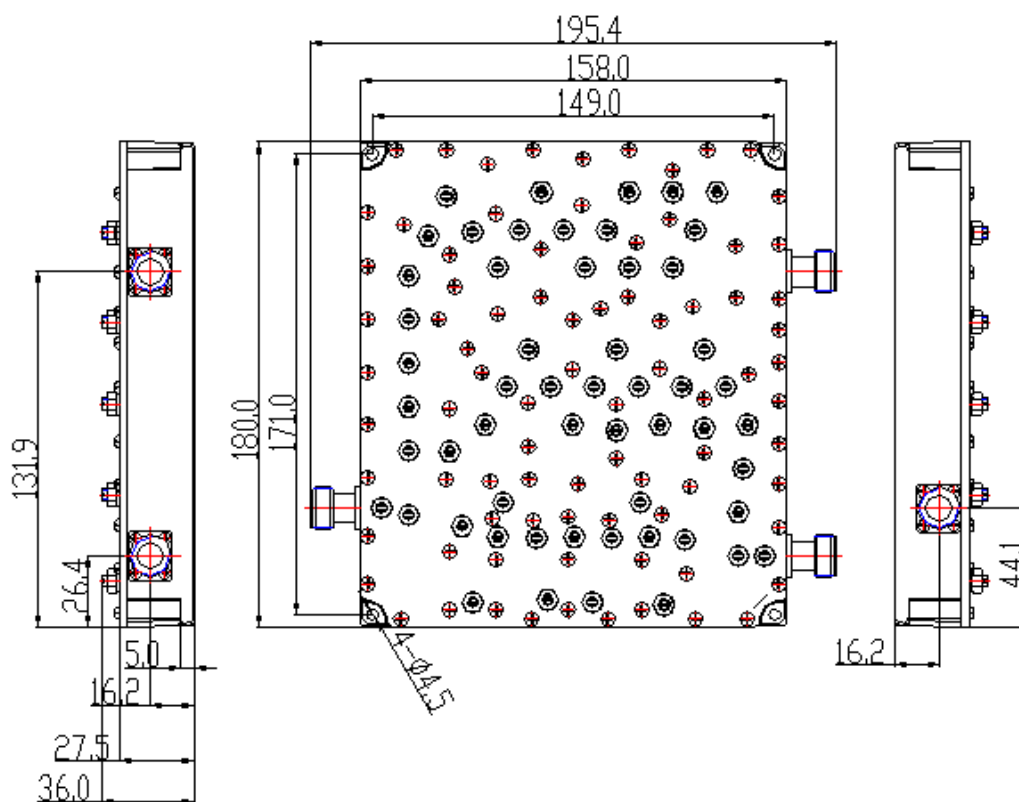
Parameters	GSM & DCS & TDA & TD F & TDE				WLAN
Frequency (MHz)	885~960	1710~1830	1880~2025	2300~2380	2400~2500
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤1.5	≤1.5
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤1.2	≤1.2
Ports Isolation (dB)	≥88				≥92
VSWR	≤1.3				
3 rd PIM	≤-140dBc@2*43dBm				
5 th PIM	≤-155dBc@2*43dBm				
Impedance (Ω)	50				
Connector	N-F				
Power Rated (W)	N: 300W DIN: 500W				
Peek Power	N≥1300W DIN≥1800W				
Temperature (°C)	-10~+55				
Color	Black				



2 IN 1 OUT TD-E COMBINER (GSM&DCS&TD-A&TD-F&WLAN/TD-E)

S-X10054E

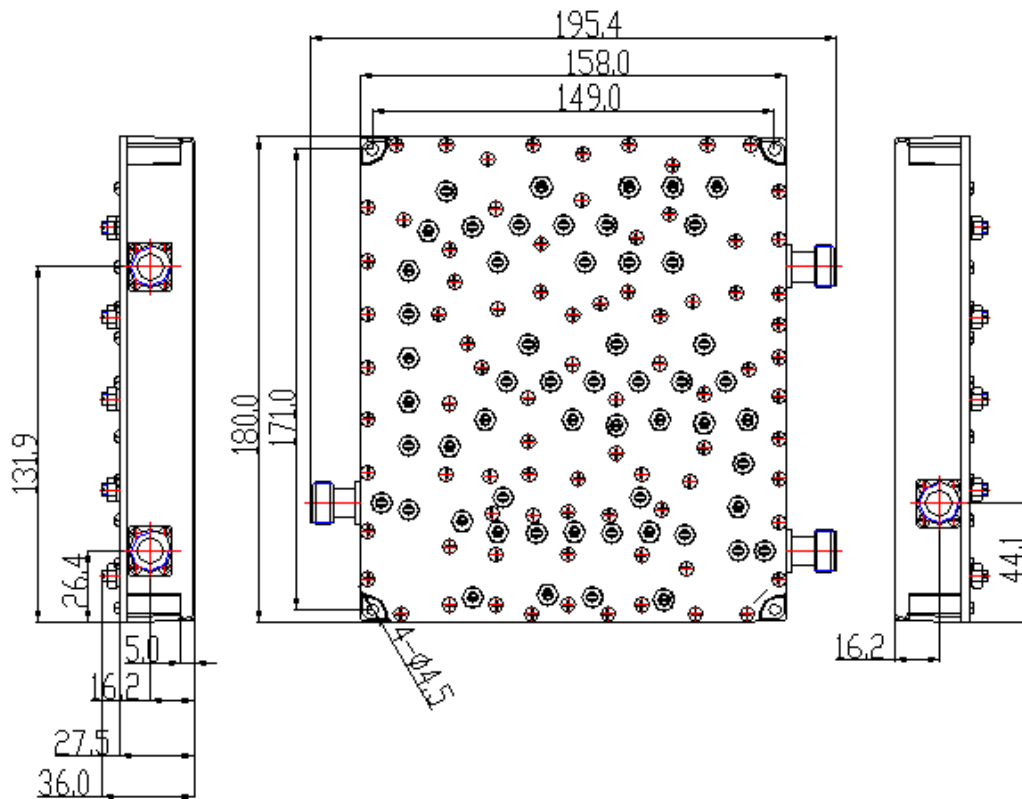
Parameters	GSM & DCS & TD-A & TD-F & WLAN				TD-E
	889~960	1710~1830	1880~2025	2400~2500	2320~2370
Frequency (MHz)	889~960	1710~1830	1880~2025	2400~2500	2320~2370
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤1.2	≤1.2
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤1.2	≤1.2
Ports Isolation (dB)	≥88				
VSWR	≤1.25				
3 rd PIM	≤-140dBc@2*43dBm				
5 th PIM	≤-155dBc@2*43dBm				
Impedance (Ω)	50				
Connector	N-F				
Power Rated (W)	N: 300W DIN: 500W				
Peek Power	N≥1300W DIN≥1800W				
Temperature (°C)	-10~+55				
Color	Black				



2 IN 1 OUT WLAN COMBINER (GSM&DCS&TD-A&TD-F&TD-E/WLAN)

S-X10054Y

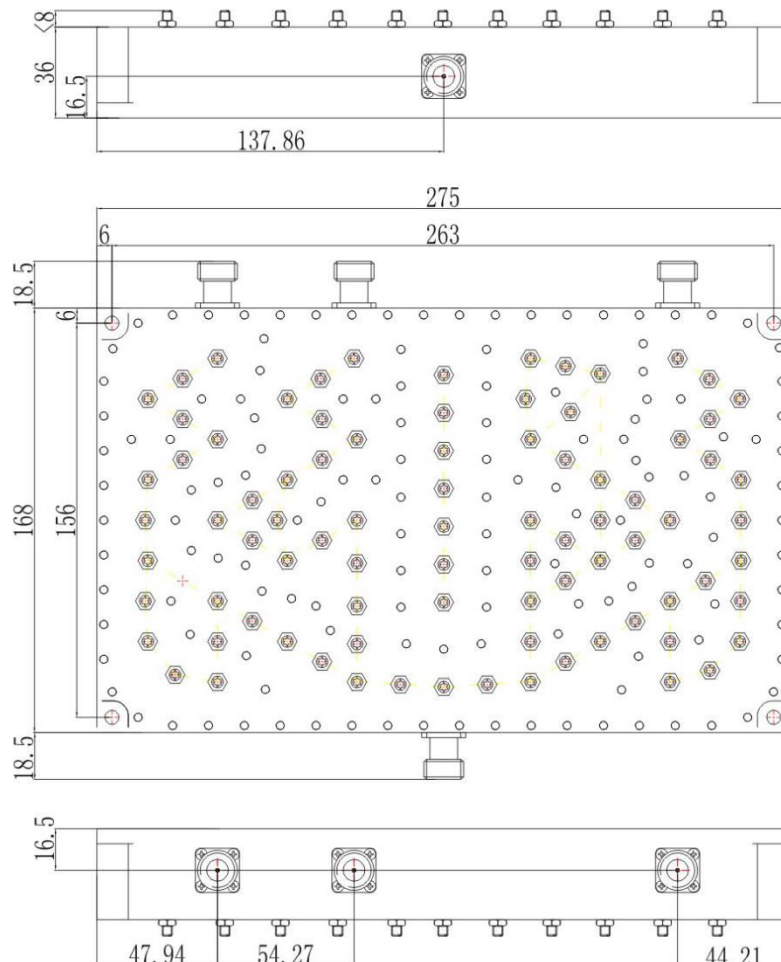
Parameters	GSM&DCS & TD-A & TD-F & TD-E				WLAN
	885~960	1710~1830	1880~2025	2300~2380	
Frequency (MHz)	885~960	1710~1830	1880~2025	2300~2380	2400~2500
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤1.2	≤1.2
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤1.2	≤1.2
Ports Isolation (dB)	≥80				
VSWR	≤1.25				
3 rd PIM	≤-140dBc@2*43dBm				
5 th PIM	≤-155dBc@2*43dBm				
Impedance (Ω)	50				
Connector	N-F				
Power Rated (W)	N: 300W DIN: 500W				
Peek Power	N≥1300W DIN≥1800W				
Temperature (°C)	-10~+55				
Color	Black				



3 IN 1 OUT WLAN COMBINER (GSM&DCS/TD<E/WLAN)

S-W13027A

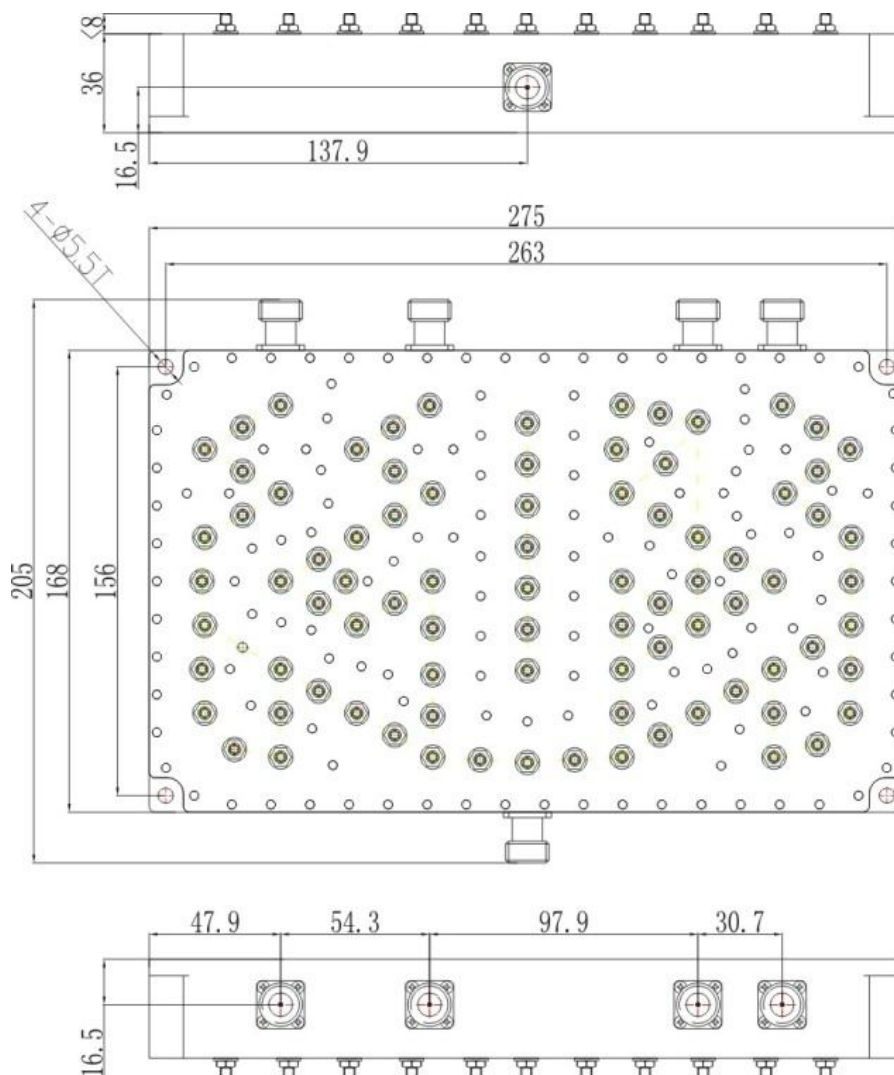
Parameters	GSM&DCS		TD+LTE		WLAN
	Frequency (MHz)	885~954	1710~1830	1880~2025	2300~2370
Insertion Loss (dB)	≤0.8	≤0.8	≤0.8	≤0.8	≤0.8
Ripple in Band (dB)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Ports Isolation (dB)	≥80				
VSWR	≤1.25				
3 rd PIM	≤-140dBc@2*43dBm				
Impedance (Ω)	50				
Connector	N-F				
Power Rated (W)	200W				
Temperature (°C)	-10~+55				
Color	Black				



4 IN 1 OUT WLAN COMBINER (GSM&DCS/TD(F,A)/LTE/WLAN)

S-W13027

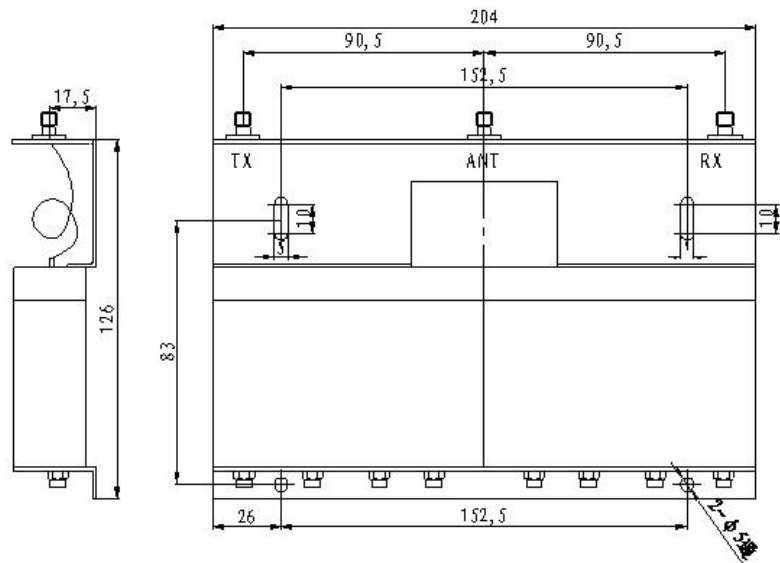
Parameters	GSM&DCS		TD(F,A)	LTE	WLAN
Frequency (MHz)	885~954	1710~1830	1880~2025	2300~2370	2400~2500
Insertion Loss (dB)	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6
Ripple in Band (dB)	≤0.4	≤0.4	≤0.4	≤0.4	≤0.4
Ports Isolation (dB)	≥80				
VSWR	≤1.25				
3 rd PIM	≤-140dBc@2*43dBm				
Impedance (Ω)	50				
Connector	N-F				
Power Rated (W)	200W				
Temperature (°C)	-10~+55				
Color	Black				



Duplexer

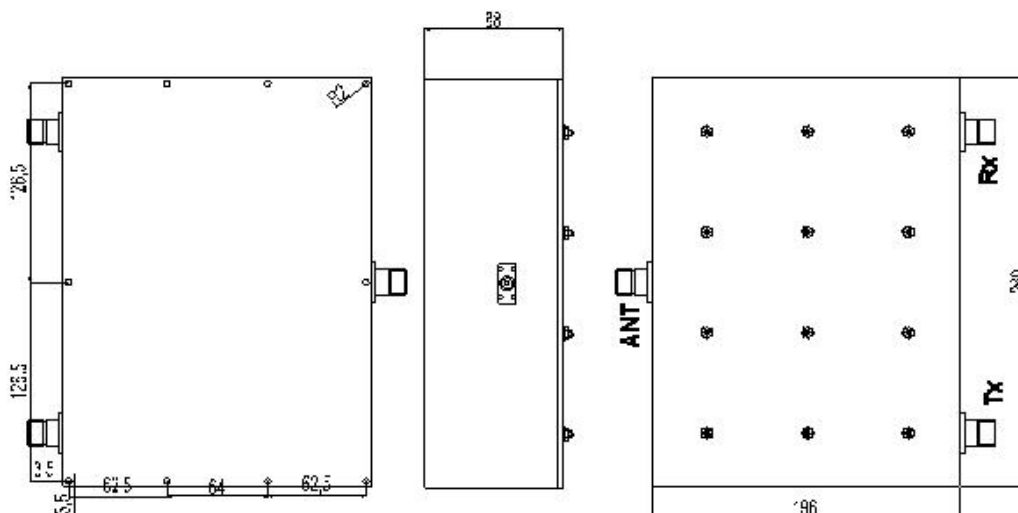
230MHz Duplexer

Parameter	RX	TX
Frequency Range (MHz)	223~227	231~235
Insertion loss (dB)	≤2.2 (Room temperature) ≤3 (High and low temperature)	≤2.2 (Room temperature) ≤3 (High and low temperature)
Ripple in Band (dB)	≤1.4 (Room temperature) ≤2.4 (High and low temperature)	≤1.4 (Room temperature) ≤2.4 (High and low temperature)
Isolation (dB)	≥18	
Rejection (dB)	≥70 (Room temperature) ≥60 (High and low temperature)	
Power Handling	50	
Temperature (°C)	-40~85	
Impedance (Ω)	50	
Connector	SMA (f)	
RH (%)	5~95	
Dimensions (mm)	204×116×35	



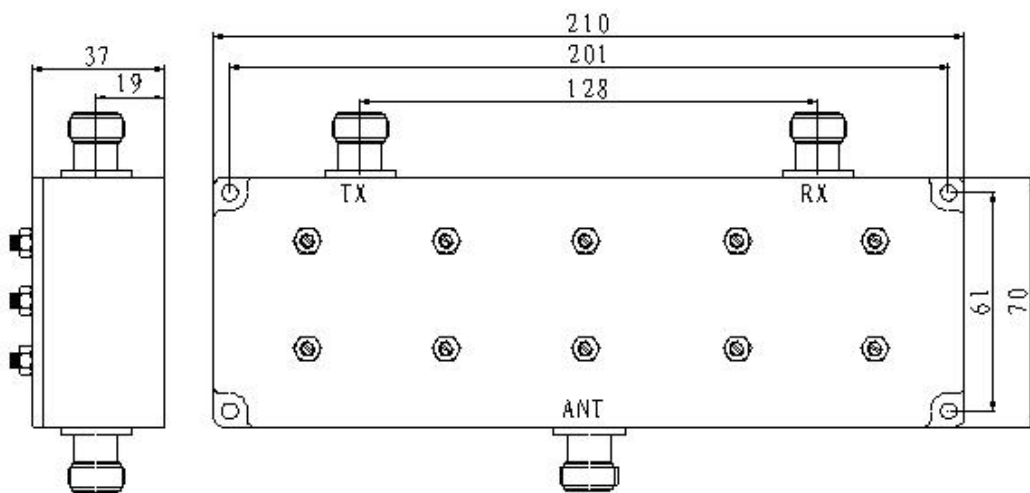
350MHz Duplexer

Parameter	Rx	Tx
Frequency Range (MHz)	350.8-356.2	360.8-366.2
Insertion loss (dB)	≤1.1	≤1.1
Ripple in Band (dB)	≤0.8	≤0.8
Isolation (dB)	>18	>18
Rejection (dB)	≥80@ Tx	≥80@ Rx
Power Handling	250	
Temperature (°C)	-10~55	
Impedance (Ω)	50	
Connector	N (f)	
RH (%)	5~95	
Dimensions (mm)	260×196×88	



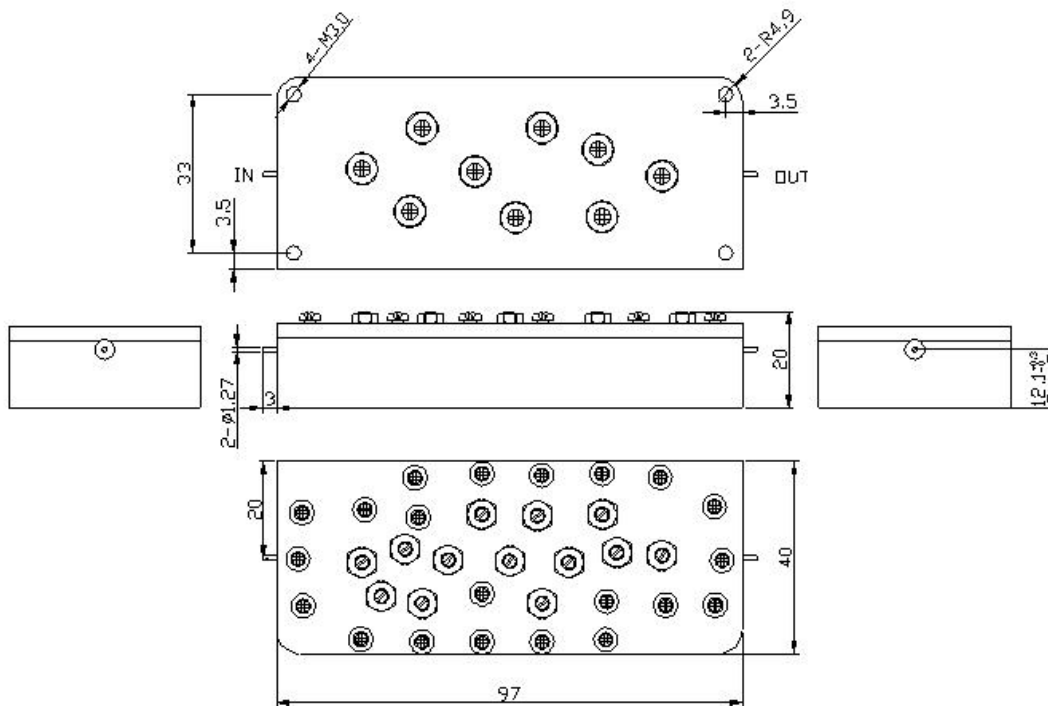
900MHz Duplexer

Parameter	RX	TX
Frequency Range (MHz)	885-915	930-960
Insertion loss (dB)	≤1.3	≤1.3
Ripple in Band (dB)	≤0.8	≤0.8
Isolation (dB)	≥18	≥18
Rejection (dB)	≥70@TX	≥70@RX
Transmitter-receiver isolation (dB)	≥80	
Power Handling	≥50W	
Temperature (°C)	-10~55	
Impedance (Ω)	50	
Connector	N (f)	
RH (%)	5~95	
Dimensions (mm)	210×70×37 mm	



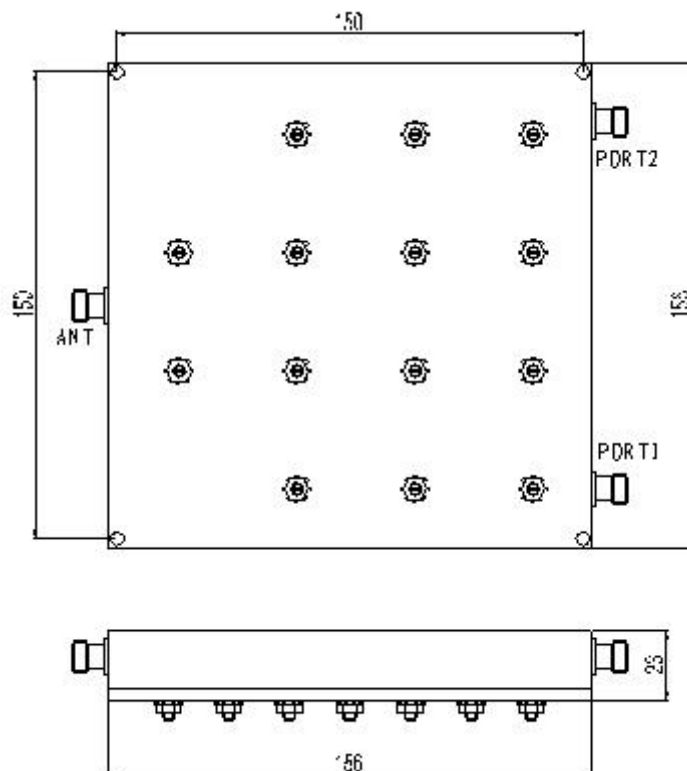
4300MHz Duplexer

Parameter	GSM
Frequency Range (MHz)	4330~4370
Insertion loss (dB)	≤3
Ripple in Band (dB)	≤1.5
Isolation (dB)	≥15
Rejection (dB)	≥80@4250MHz
Power Handling	≥5
Temperature (°C)	0~+50
Impedance (Ω)	50
Connector	Microstrip needle
Dimensions (mm)	97×40×20



5800MHz Duplexer

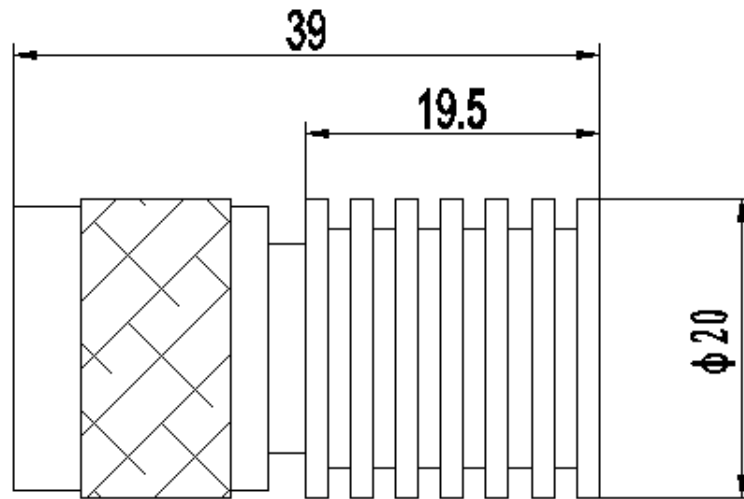
Parameter	Port1	Port2
Frequency Range (MHz)	5725-5765	5785-5825
Insertion loss (dB)	<1.8	<1.8
Ripple in Band (dB)	<1.3	<1.3
Isolation (dB)	>18	>18
Rejection (dB)	>70@Port2	>70@Port1
Power Handling (W)	200	
Temperature (°C)	-20~65	
Impedance (Ω)	50	
Connector	SMA (f)	
Dimensions (mm)	156×156×23	



Terminator

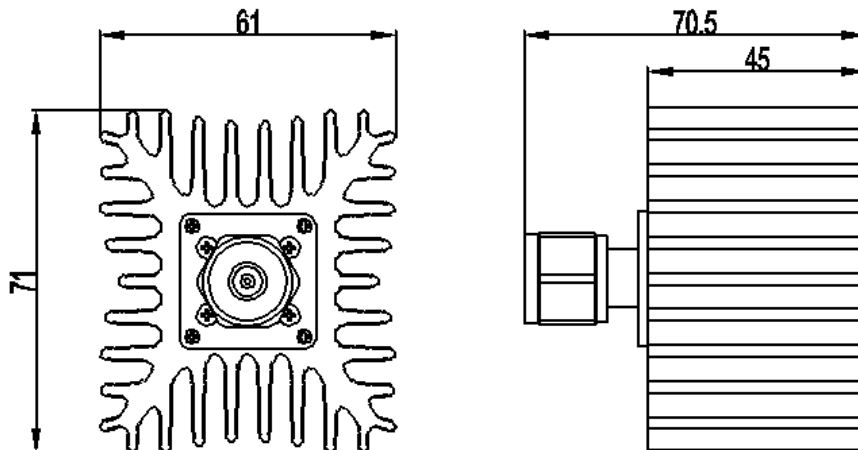
5W (DC~3GHz)

Parameter	Specifications
Frequency Range (GHz)	DC~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	5
PIM (dBc)	$\leq -120\text{dBc}@2\times 33\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	$\phi 20\times 39$
Weight (g)	30



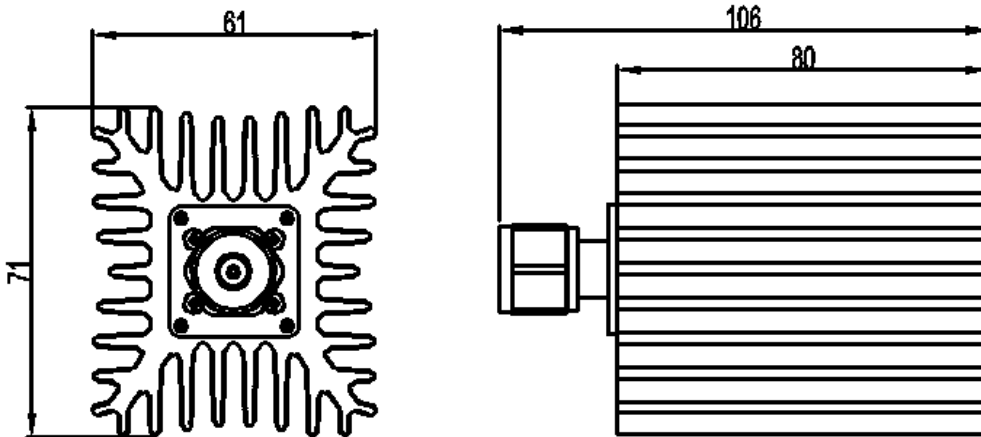
25W (DC~3GHz)

Parameter	Specifications
Frequency Range (GHz)	DC~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	25
PIM (dBc)	$\leq -120\text{dBc}@2\times 33\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	71×61×45
Weight (g)	300



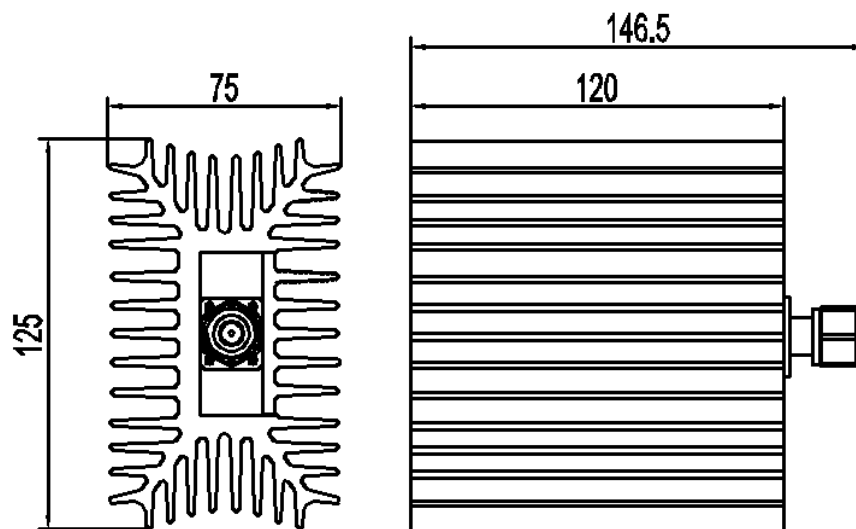
50W (DC~3GHz)

Parameter	Specifications
Frequency Range (GHz)	DC~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	50
PIM (dBc)	$\leq -105\text{dBc}@2\times 43\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	71x61x80
Weight (g)	500



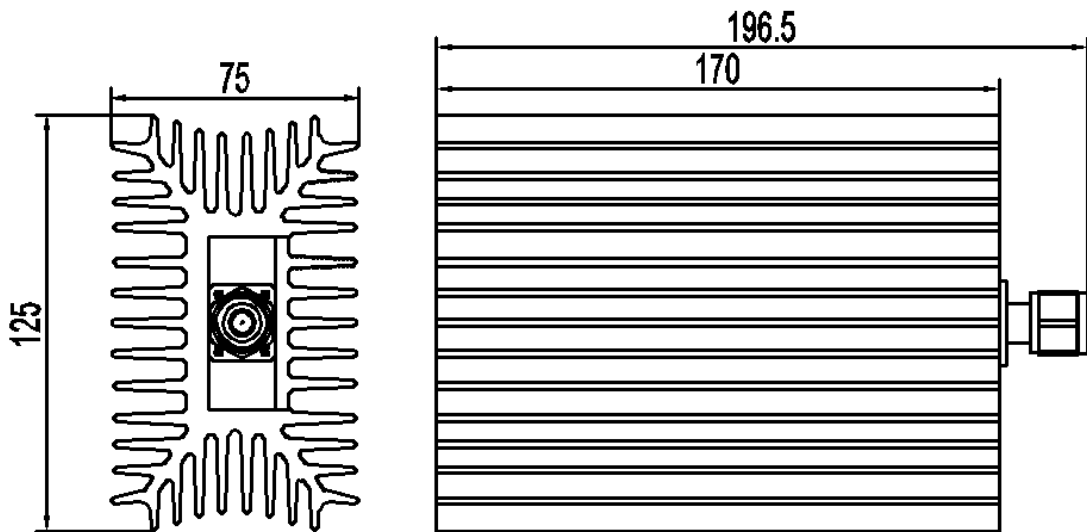
100W (DC~3GHz)

Parameter	Specifications
Frequency Range (GHz)	DC~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	100
PIM (dBc)	$\leq -105\text{dBc}@2\times 43\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	125 \times 75 \times 120
Weight (g)	1300



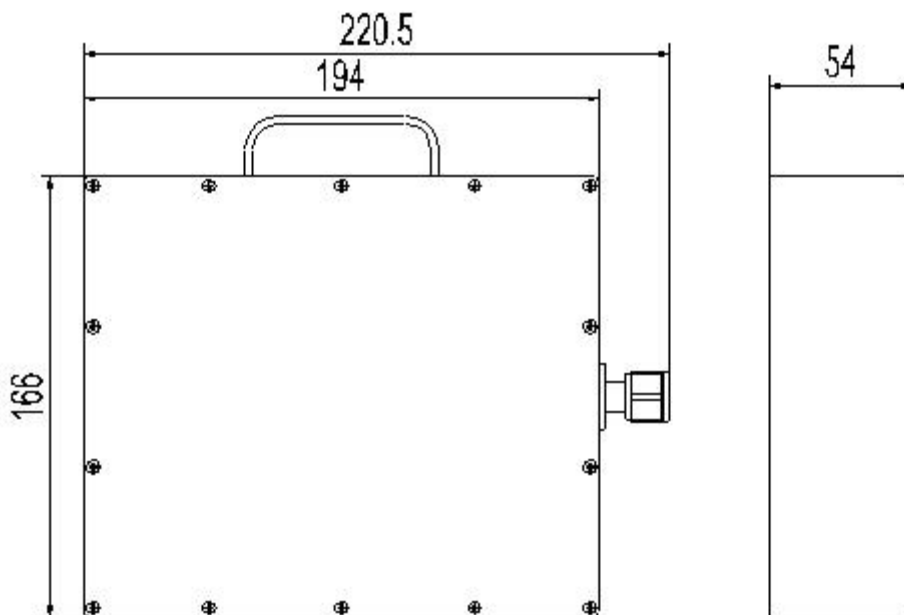
200W (DC~3GHz)

Parameter	Specifications
Frequency Range (GHz)	DC~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	$\leq -105\text{dBc}@2\times 43\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	125×75×170
Weight (g)	1950



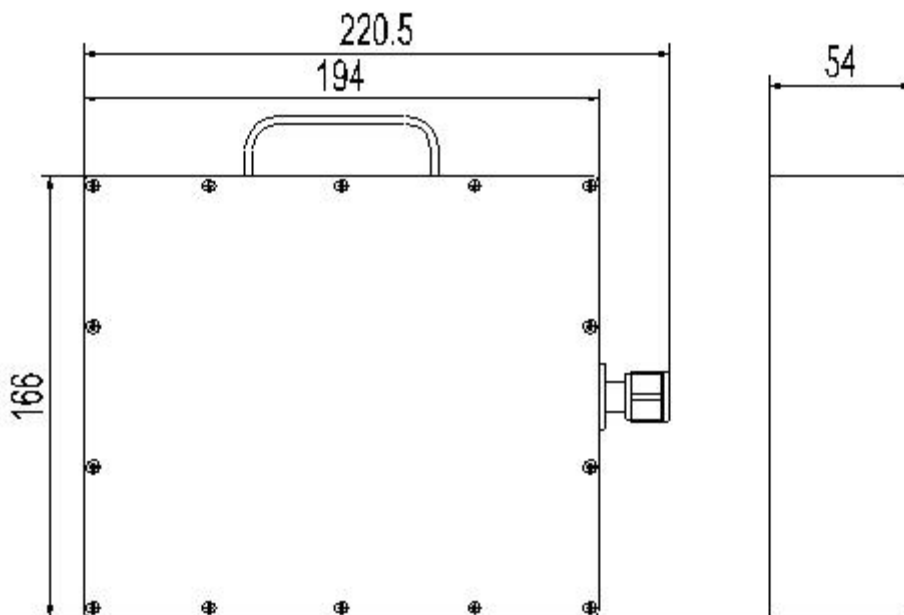
50W (800-3000MHz)

Parameter	Specifications
Frequency Range (GHz)	0.8~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	50
PIM (dBc)	$\leq -145\text{dBc}@2\times 43\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	194×166×54
Weight (g)	1600



100W (800-3000MHz)

Parameter	Specifications
Frequency Range (GHz)	0.8~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	100
PIM (dBc)	$\leq -145\text{dBc}@2\times 43\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	194×166×54
Weight (g)	1600



200W (800-3000MHz)

Parameter	Specifications
Frequency Range (GHz)	0.8~3
Return Loss (dB)	>20
Impedance (Ω)	50
Power Handling (W)	200
PIM (dBc)	$\leq -145\text{dBc}@2\times 43\text{dBm}$
Connector	N (m)
Temperature ($^{\circ}\text{C}$)	-20~55
Relative Humidity (%)	5~95
Dimensions (mm)	194×166×68
Weight (g)	2100

