

# FOUR WAYS COMBINER T

MODEL: QUD-Series

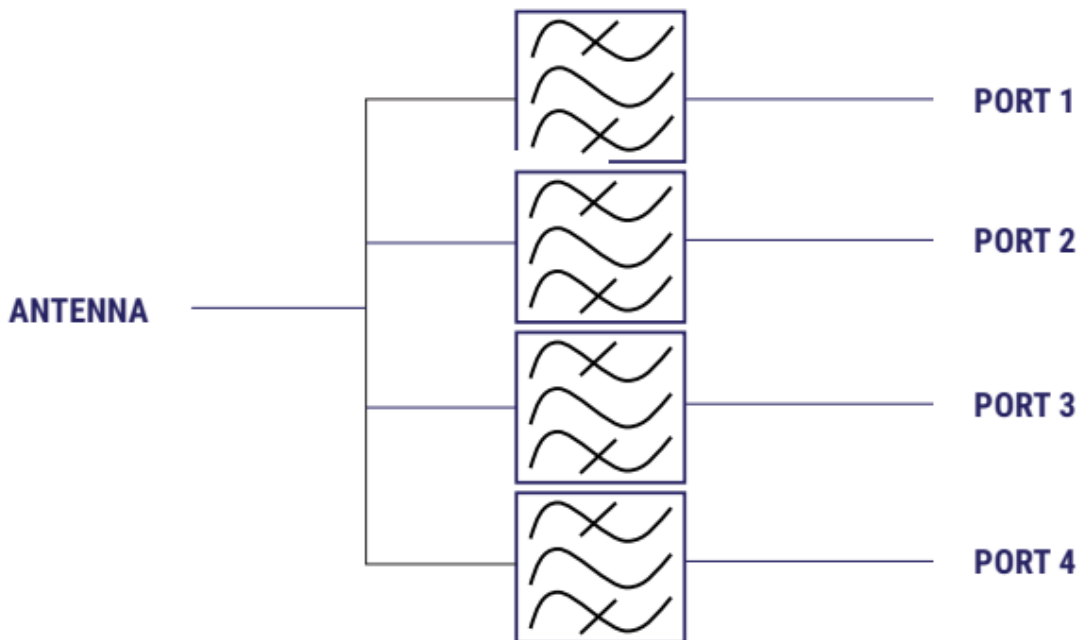
## ■ Feature

4 ways combiner is an antenna duplexer that shares 4 frequencies. The frequency can be manufactured from 600/700/800/1710/2100 MHz with the specific frequency of LTE/PCS/AWS . It also has waterproof function so it can be installed outdoors. Low loss and low PIM are ideal for outdoor base station equipment.

## ■ Application

- Cellular outdoor Network

## ■ Block diagram



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## ■ Specifications

### Electronical characteristics

	Port 1	Port 2	Port 3	Port 4
<b>Frequency Band</b>	622~678MHz	698~734MHz	816.5~869MHz	1730~2155MHz
<b>Insertion Loss</b>	0.5 dB max			
<b>Pass band Ripple</b>	0.35dB			
<b>V.S.W.R</b>	1.2 max			
<b>Isolation</b>	60dBc min			
<b>Impedance</b>	50Ω All ports			
<b>Passive Intermodulation</b>	-153dBc CW 2x43dBm			
<b>Average Maximum Power</b>	200W			

### Mechanical characteristics

<b>Dimensions</b>	278x253x58 mm (Height x Width x Depth)
<b>Connector</b>	Antenna- 7/16 DIN-Female
<b>Mounting</b>	Wall

### Environmental characteristics

<b>Operating Temperature</b>	-30 to +75°C
<b>Storage Temperature</b>	-40 to +85°C
<b>Relative Humidity</b>	0~95% ~35 °C
<b>Waterproofing Class</b>	IP67
<b>Lightning Protection</b>	3kA Lightning Surge Current Waveform 10/350 waveform 20kA Lightning Surge Current Waveform 8/20 waveform
<b>RoHS Applicant</b>	Complied

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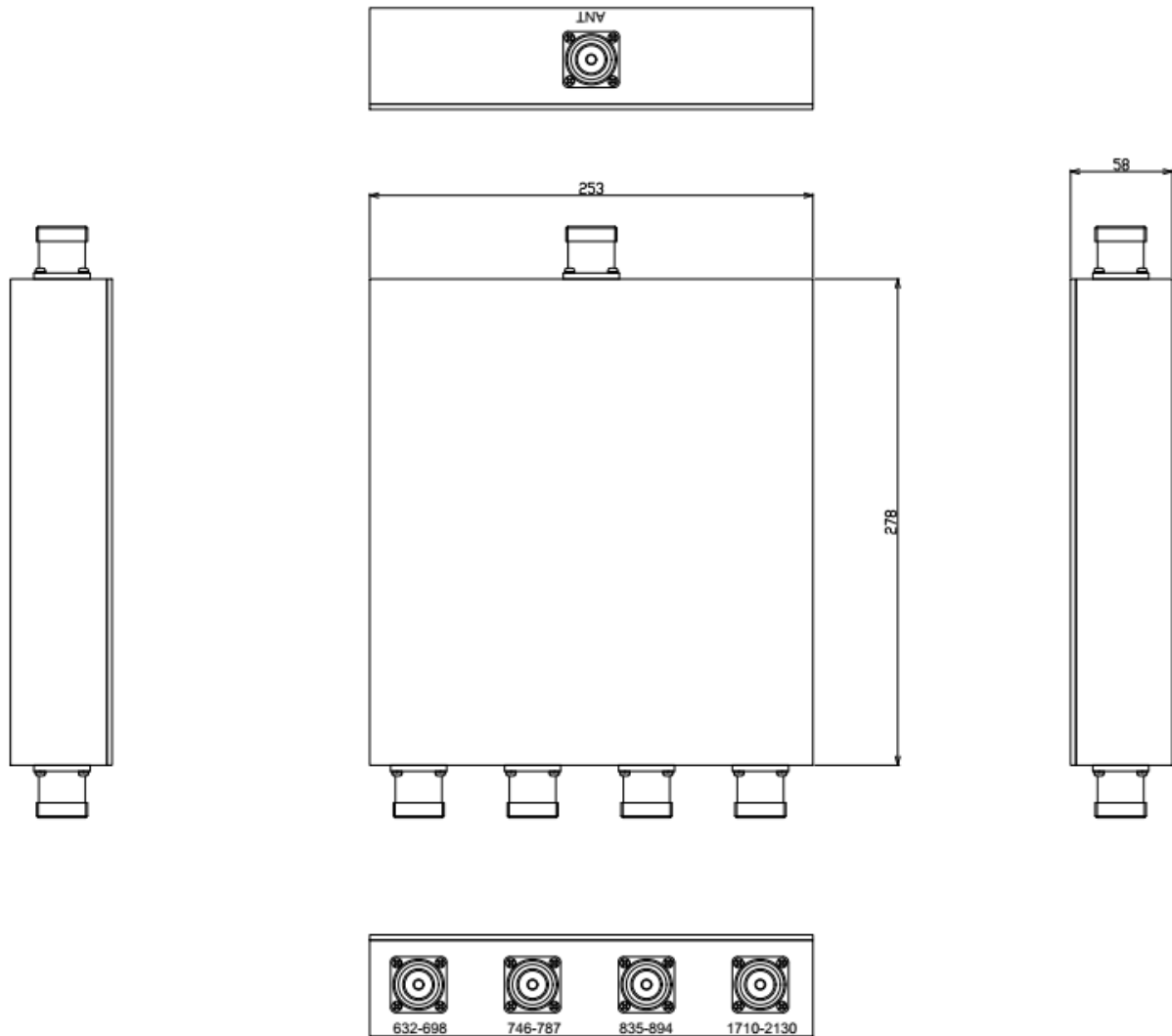
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## ■ Drawing



### ■ Warranty policy

Tamagawa hereby warrants to Buyer that the products delivered hereunder will be free from defects in material and workmanship under normal use and service as follow: (1) years from date of shipment. Tamagawa' only obligation under this warranty is to repair or replace, at its factory, any Tamagawa product or part thereof that is returned to Tamagawa by the original Buyer within the warranty period. Tamagawa shall not be liable for any direct or consequential injury, loss or damage incurred through the use, or inability to use, any Tamagawa product.



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