



# 790-960/1710-2170/2490-2690 Triple Band Combiner 3in 1out

## ELECTRICAL SPECIFICATIONS

ANT-Port1 Frequency Range (MHz)	790-960MHz
Insertion Loss (dB)	0.2typical 0.3max
Return Loss	20 typical 18 min
Isolation (1710-2170MHz&2490-2690MHz)	52 typical 50dB min
Intermodulation	<-160dBc Typical, <-155dBc (with 2x43dBm)
ANT-Port2 Frequency Range (MHz)	1710-2170MHz
Insertion Loss (dB)	0.25typical 0.35max
Return Loss	20 typical 18 min
Isolation (790-960MHz&2490-2690MHz)	52 typical 50dB min
Intermodulation	<-160dBc Typical, <-155dBc (with 2x43dBm)
ANT-Port3 Frequency Range (MHz)	2490-2690MHz
Insertion Loss (dB)	0.2typical 0.3max
Return Loss	20 typical 18 min
Isolation (790-960MHz&1710-2170MHz)	52 typical 50dB min
Intermodulation	<-160dBc Typical, <-155dBc (with 2x43dBm)
Max Input Power per port	200W
DC Pass Current	3A
Impedance	50 Ω

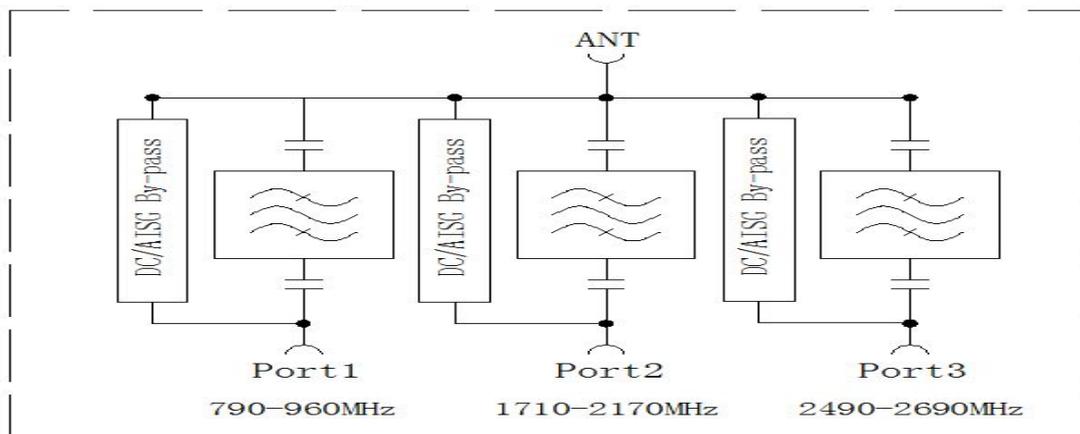
## MECHANICAL SPECIFICATIONS

Dimension HxWxD mm (body)	Single Unit: 154x155x55.5mm (Filter Body)
Weight	Single Unit: ≤2kg (Net weight)
Colors	Light Grey
RF Connectors	7/16 DIN-Female 4.3-10-Female
Mounting Kit	Mounting kit for pole and wall included

## ENVIRONMENTAL SPECIFICATIONS

Temperature Range	-40°C to +65°C
Operational	ETS 300 019-1-4
Transportation	ETS 300 019-1-2
Storage	ETS 300 019-1-1
Lightning Protection	±5KA 8/20us
Housing	Aluminum
Ingress Protection	IP67

## Block Diagram



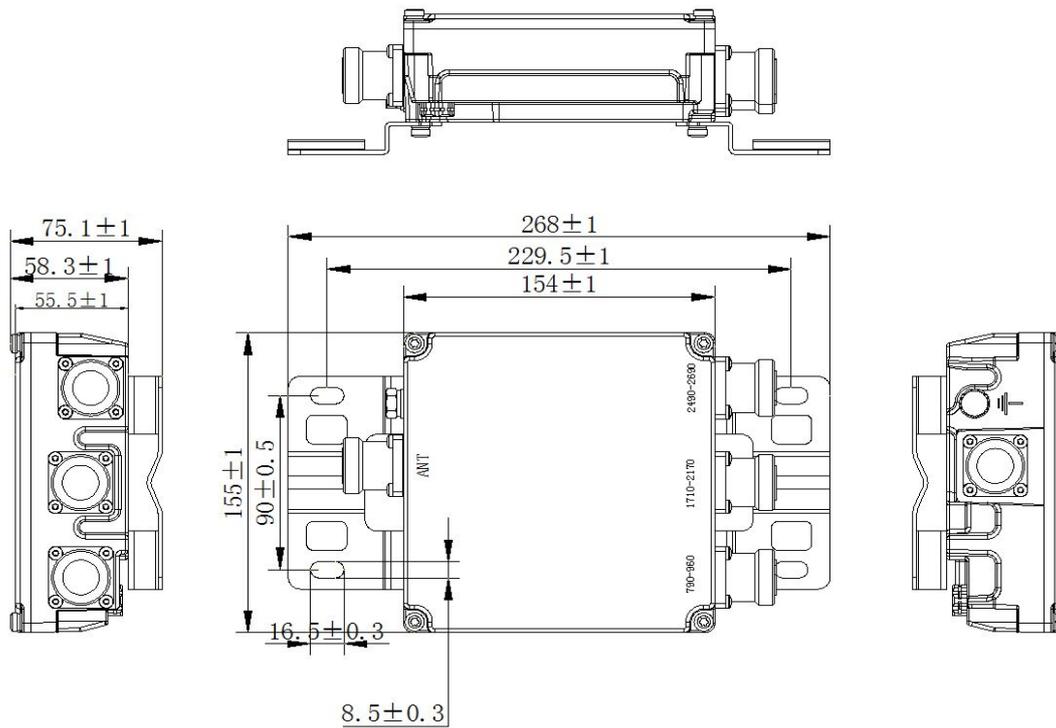
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## Mechanical Dimension



## Ordering Information

Part Number	Product Type	DC Configuration		
		DC pass in 09 band	DC pass in 1.8&2.1 band	DC pass in 2.6 band
TY-C023S014(F1V1)	Single Unit	✓	✓	✓
TY-C023S014 (F1V2)	Single Unit	✓	✓	×
TY-C023S014 (F1V3)	Single Unit	✓	×	×
TY-C023S014 (F1V4)	Single Unit	×	✓	✓
TY-C023S014 (F1V5)	Single Unit	×	×	✓
TY-C023S014 (F1V6)	Single Unit	×	×	×

## Application

The Combiner TY-C023S014 to be used for combining 09/1.8&2.1/2.6 signals to a common feeder. Rejection between the two systems is provided to suppress wide band noise and spurious signals between the systems. The combiner has a configurable DC path to provide both DC and modulated subcarrier communication to TMA and RET systems over the feeder cable. This unit is intended for indoor or outdoor installations.

TYCC vented enclosure is designed to prevent the effect of condensation thereby guaranteeing long reliable, maintenance free service in all environmental conditions.

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