

# High Power RF Combiner/Splitter



## Description

Polaris' High Power RF Combiner/Splitter series provides in-phase high power rating across 10MHz to 250MHz frequency with very low insertion loss. This series provides high isolation and very low amplitude and phase unbalance and can be supplied either SMA or N-type connector depending on your order.



## Ordering Information

- ❖ 2-Way Power Combiner/Splitter: PPCS-2-10-250-xxW (xx: Power Rating)
  - Power Rating as Divider: 1W, 5W, 10W, or 20W at SUM port
- ❖ 5-Way Power Combiner/Splitter: PPCS-5-10-250-xxW (xx: Power Rating)
  - Power Rating as Divider: 10W or 20W at SUM port

## Features

- ❖ High Power Rating
- ❖ Low Insertion Loss
- ❖ High Isolation
- ❖ Excellent VSWR
- ❖ 50 ohm at all ports
- ❖ SMA or N-type connectors

## Applications

- ❖ AM/FM Radio
- ❖ Instrumentation
- ❖ VHF/UHF

## Specifications

Parameters		High Power Combiner/Splitter				
		Unit	Min.	Typ.	Max.	
2-Way Combiner /Splitter	Frequency Range	MHz	10		250	
	Insertion Loss Above 3.0dB	dB	-	0.25	0.5	
	Isolation	dB	15	20	-	
	Phase Unbalance	Degree	-	0.5	2	
	Amplitude Unbalance	dB	-	0.05	0.25	
	VSWR at all ports	1	-	1.2	1.5	
	Power Rating as Divider	W	-	-	Note1	
	Operating Temperature	°C	-20	-	+70	
	Storage Temperature		-40	-	+85	
	Connectors		SMA-Jack or N-Jack			
	Housing	Material	Aluminum, ROHS Compliant			
Color		Gray				
Finish		Nickel Coating				
5-Way Combiner /Splitter	Frequency Range	MHz	10		250	
	Insertion Loss Above 9.0dB	dB	-	0.6	1.0	
	Isolation	dB	15	20	-	
	Phase Unbalance	Degree	-	2.5	6	
	Amplitude Unbalance	dB	-	0.3	0.8	
	VSWR at all ports	1	-	1.2	1.5	
	Power Rating as Divider	W			Note2	
	Operating Temperature	°C	-20	-	+70	
	Storage Temperature		-40	-	+85	
	Connectors		SMA-Jack or N-Jack			
	Housing	Material	Aluminum, ROHS Compliant			
Color		Gray				
Finish		Nickel Coating				

Note1:

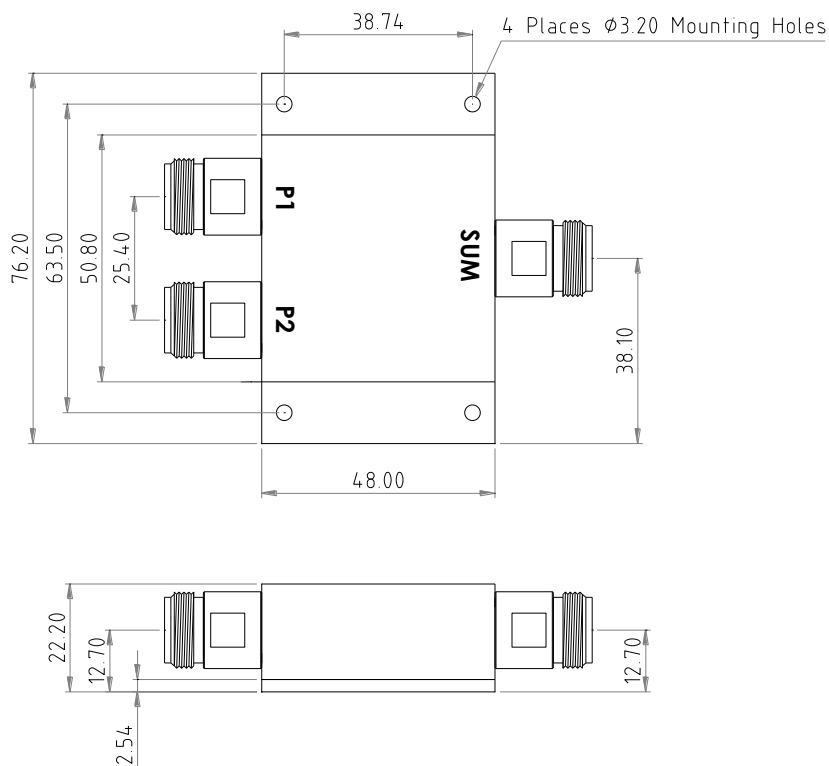
Power Rating as Divider: 1W, 5W, 10W, or 20W at SUM port

Note2:

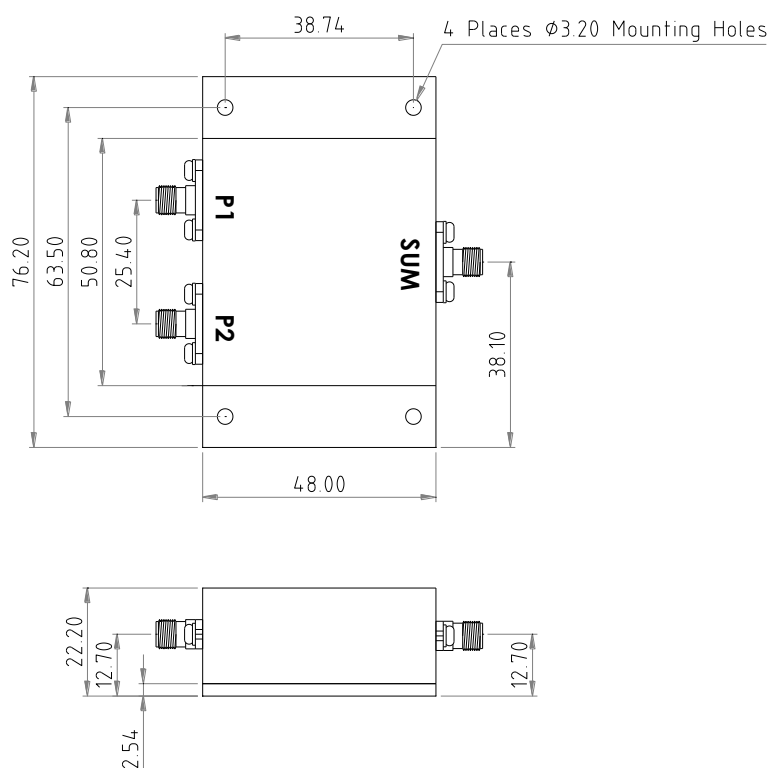
Power Rating as Divider: 10W or 20W at SUM port

## Outline Drawing

All dimensions are in millimeters.



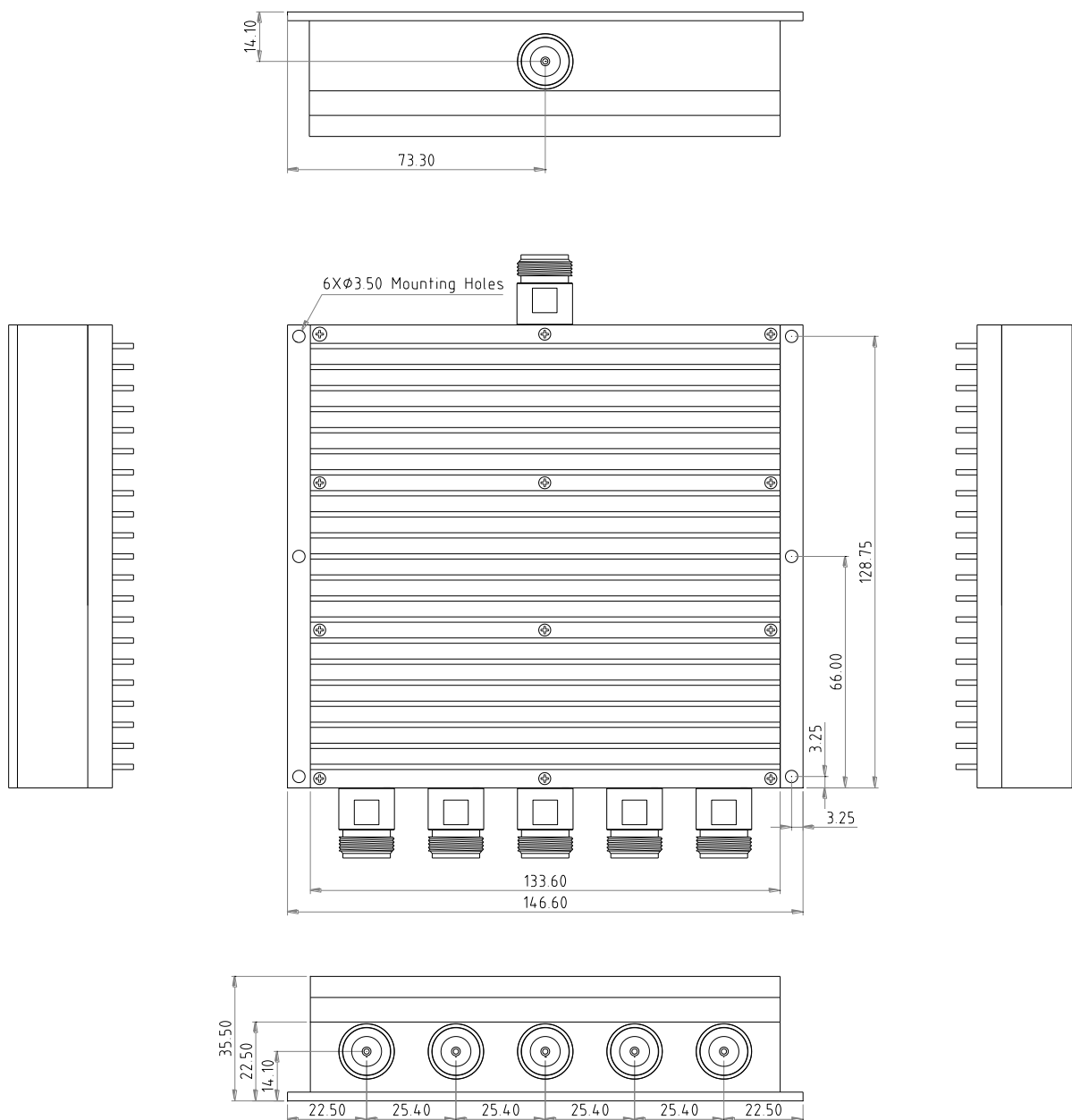
2-Way Power Combiner/Splitter – N Connectors



2-Way Power Combiner/Splitter – SMA Connectors

## Outline Drawing

All dimensions are in millimeters.



5-Way Power Combiner/Splitter

- Address: #1913, Anam tower, 311, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea
- Tel: +82-2-2009-2120
- e-mail: info@polariswave.com
- web: www.polariswave.com