



- High power, wideband, power divider at 100W from 698 to 3800 MHz
- Low RF Insertion Loss and excellent return loss performance
- Available in 2-way, 3-way and 4-way configurations
- Orderable with 4.3-10 type connectors
- Rugged outdoor rated and high reliability design
- Designed for ultra low PIM performance
- RoHS compliant

### Overview

CCI's PDO-68 series of Power Dividers deliver high power performance at 100 Watts, while covering a wide frequency band 698 to 3800 MHz. Each model provides low PIM values with very low insertion loss and excellent return loss performance. The units are offered in a range of dividing values which is very useful for optimizing RF power distribution which is often required for distributed antenna systems (DAS).

The extremely wide frequency range allows use with multiband and broadband antennas and DAS systems, and the high power handling makes them ideal for use with wireless base stations. These units are constructed with a weatherproof aluminum IP65 rated housing and with IP65 immersion rated connectors suited to long-life outdoor use. The power dividers can be wall mounted with the included bracket and the RF ports can be configured with either 4.3-10 type connectors.

CCI filter and combiner products are designed and produced to ISO 9001 certification standards for reliability and quality at our state-of-the-art engineering and manufacturing facilities.



## SPECIFICATIONS

### Ultra-broadband Power Divider

PDO-68-xxx

#### Electrical Specification

RF Parameter			
Frequency Range	698 - 3800 MHz		
Style	2-Way	3-Way	4-Way
Split Loss	3.0 dB	4.8 dB	6.0 dB
Insertion Loss	0.5 dB maximum	0.6 dB maximum	0.6 dB maximum
Return Loss	18.0 dB minimum		

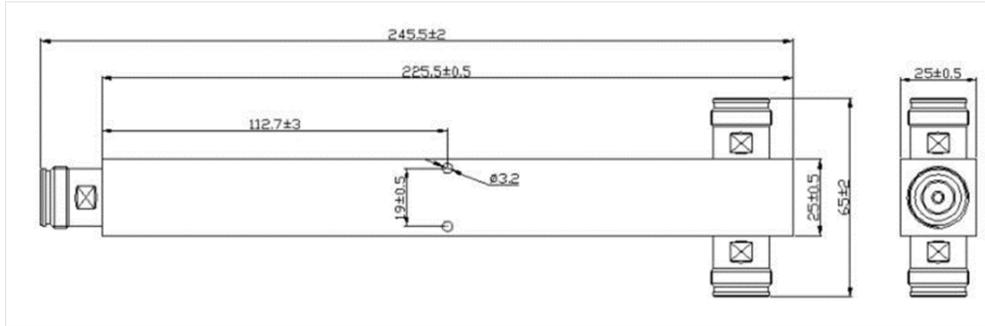
General Characteristics			
Continuous Average Power	100 W		
Peak Envelope Power	1.0 kW maximum		
Impedance	50 ohms		
Intermodulation Performance	<-112 dBm (-155 dBc) at 2 x +43 dBm tones		

#### Environmental Specification

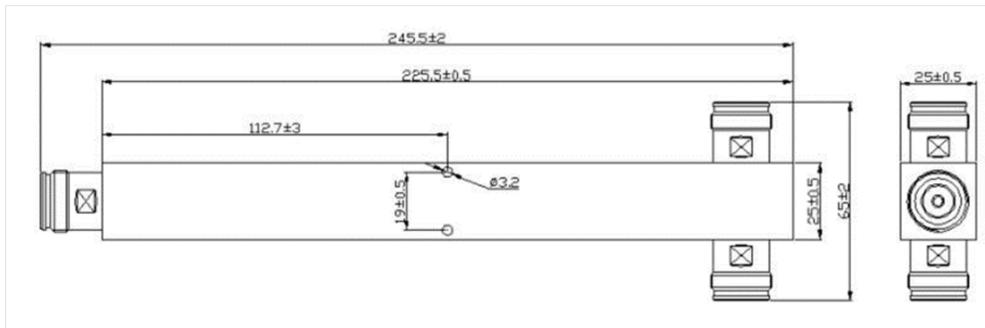
Operating Temperature	-35° C to +65° C
Enclosure	IP65
Connectors	IP65
Relative Humidity	5 - 95%

#### Mechanical Specification

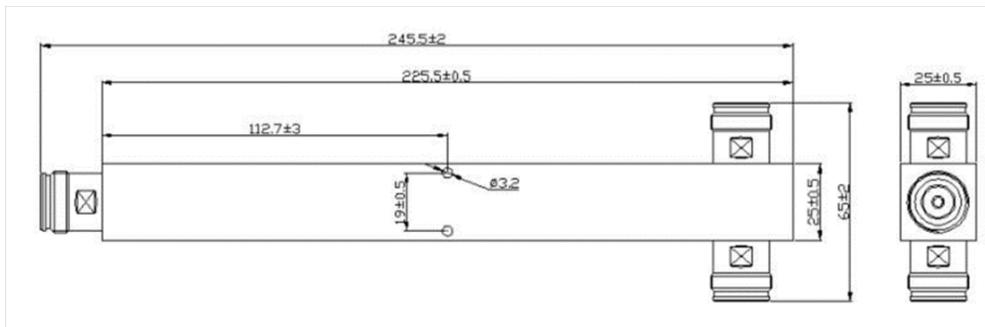
Style	2-Way	3-Way	4-Way
Connectors	3 x 4.3-10 female	4 x 4.3-10 female	5 x 4.3-10 female
Dimensions (Housing)	225.5 x 25 x 25 mm	225.5 x 25 x 25 mm	225.5 x 25 x 25 mm
Dimensions (including Connectors)	245.5 x 65 x 25 mm	265.5 x 65 x 25 mm	265.5 x 65 x 45 mm
Weight	0.43 Kg (0.95 lbs)	0.48 Kg (1.05 lbs)	0.52 Kg (1.15 lbs)



Ultra-broadband 2-way Power Divider with 4.3-10 Female Connectors Outline Drawing



Ultra-broadband 3-way Power Divider with 4.3-10 Female Connectors Outline Drawing



Ultra-broadband 4-way Power Divider with 4.3-10 Female Connectors Outline Drawing



# DAS Products

## STANDARDS & CERTIFICATIONS

### Ultra-broadband Power Divider

PDO-68-xxx

#### Parts & Accessories

**PDO-68-2F2** 2-way with 4.3-10 female connectors

**PDO-68-3F2** 3-way with 4.3-10 female connectors

**PDO-68-4F2** 4-way with 4.3-10 female connectors

#### Standards & Compliance

**Safety** EN 60950-1, UL 60950-1

**Emission** EN 55022

**Immunity** EN 55024

**Environmental** IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14, IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29, IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64, GR-63-CORE 4.3.1, EN 60529 IP67 & IP68

#### Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US, ISO 9001



# CCI

## Communication Components Inc.

EXTENDING WIRELESS PERFORMANCE