



# DAS Products

DATA SHEET

## High Power Power Divider

PD-0727-xx



- High power, wideband, power divider covers frequencies from 698 to 2700 MHz
- Low RF Insertion Loss and excellent return loss performance
- Available in 2-way, 3-way and 4-way
- Configurable with N-type, DIN 7-16, and 4.3-10 Connectors
- Rugged outdoor rated and high reliability design
- Designed for ultra low PIM performance
- RoHS compliant

### Overview

CCI's PD-0727 series of Power Dividers deliver high power performance at 300 to 700 Watts, based on connector type, while covering a wide frequency band 698 to 2,700 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. The housing is constructed from die cast aluminum and consists of an IP66 moisture proof enclosure, with IP68 immersion proof 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 DIN 7-16, 4.3-10 or N-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

### High Power Power Divider

PD-0727-xx

#### Electrical Specification

Connector type	Models		
DIN 7-16 Female	PD-0727-2D	PD-0727-3D	PD-0727-4D
N-type Female	PD-0727-2N	PD-0727-3N	PD-0727-4N
4.3-10 Female	PD-0727-2M	PD-0727-3M	PD-0727-4M

RF Parameter			
Frequency Range	694 - 2700 MHz		
Style	2-Way	3-Way	4-Way
Insertion Loss	$\leq 3.0 \text{ dB} \pm 0.3 \text{ dB}$	$\leq 4.7 \text{ dB} \pm 0.3 \text{ dB}$	$\leq 6.0 \text{ dB} \pm 0.3 \text{ dB}$
Coupling Variation	$\leq 0.3 \text{ dB}$	$\leq 0.3 \text{ dB}$	$\leq 0.3 \text{ dB}$
Return Loss	$\leq -20 \text{ dB typ}$	$\leq -20 \text{ dB typ}$	$\leq -18 \text{ dB typ}$

General Characteristics	PD-0727-HP-xD	PD-0727-HP-xN	PD-0727-HP-xM
Connector Type	DIN 7-16	N-Type	4.3-10
Continuous Average Power	700 W	300 W	700 W
Peak Envelope Power	3 kW max.	3 kW max.	3 kW max.
Impedance	50 ohms		
Intermodulation Performance	<-110 dBm (-153 dBc) minimum (2 x +43 dBm tones)		

#### Environmental Specification

Model	PD-0727-xD	PD-0727-xN	PD-0727-xM
Connector type	DIN 7-16	N-Type	4.3-10
Operating Temperature	-40 °C to +65 °C	-40 °C to +65 °C	-40 °C to +65 °C
Enclosure	IP66, outdoor use	IP66	IP66, outdoor use
Connectors	IP68	IP68	IP68
Relative Humidity	0 - 95%	0 - 95%	0 - 95%

#### Mechanical Specification

Model	PD-0727-2x	PD-0727-3x	PD-0727-4x
Connectors	DIN 7-16, N or 4.3-10 x 3	DIN 7-16, N or 4.3-10 x 4	DIN 7-16, N or 4.3-10 x 5
Enclosure Dimensions without Connectors	181 x 32 x 32 mm (7.13 x 1.26 x 1.26 in.)	186 x 32 x 32 mm (7.32 x 1.26 x 1.26 in.)	213 x 24.5 x 24.5 mm (6.81 x 0.96 x 0.96 in.)
Weight, DIN connectors	0.72 Kg (1.6 lbs)	0.75 Kg (1.7 lbs)	0.9 Kg (2 lbs)
Weight, 4.3-10 connectors	0.60 Kg (1.3 lbs)	0.62 Kg (1.4 lbs)	0.75 Kg (1.7 lbs)
Weight, N-type connectors	0.33 Kg (0.73 lbs)	0.35 Kg (0.77 lbs)	0.421 Kg (0.9 lbs)

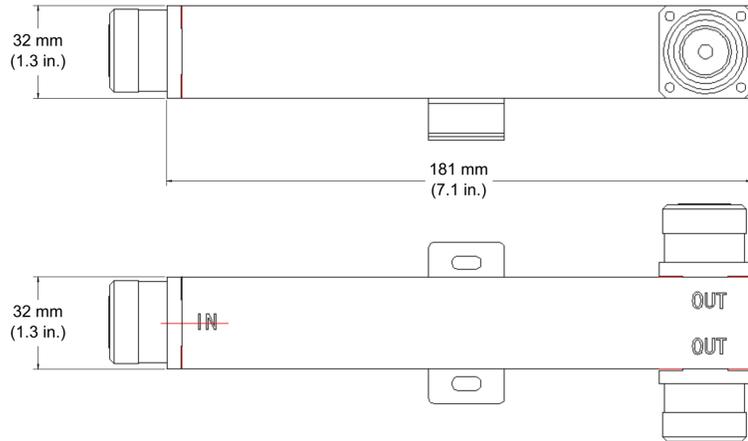


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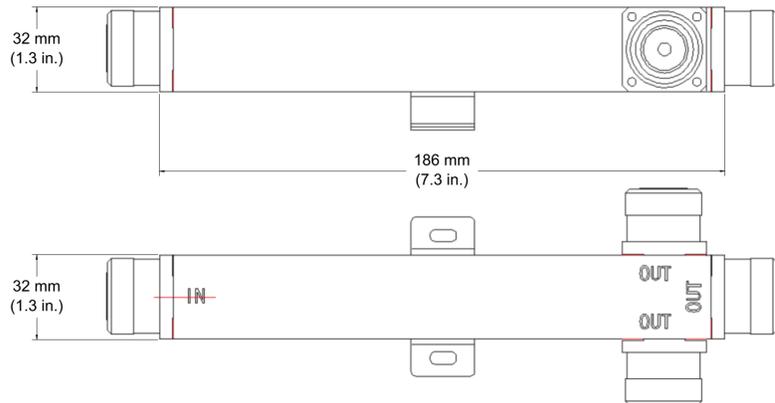
## SPECIFICATIONS

### High Power Power Divider

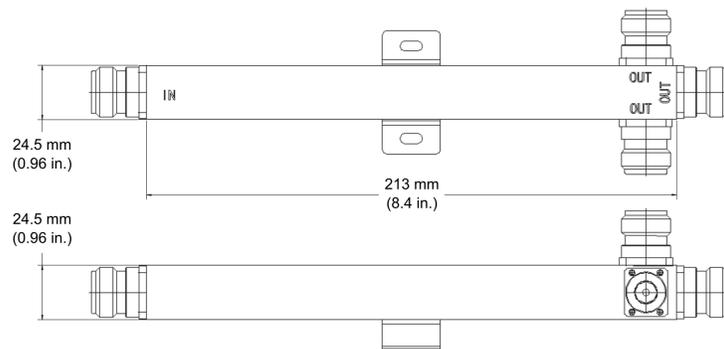
PD-0727-xx



High Power 2-way Power Divider with DIN 7-16 Female Connectors (PD-0727-2D) Outline Drawing



High Power 3-way Power Divider with DIN 7-16 Female Connectors (PD-0727-3D) Outline Drawing



High Power 4-way Power Divider with N-type Female Connectors (PD-0727-4N) Outline Drawing



# DAS Products

## STANDARDS & CERTIFICATIONS

### High Power Power Divider

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#### Parts & Accessories

PD-0727-2D	High Power 2-way Power Divider with DIN 7-16 Connectors
PD-0727-2N	High Power 2-way Power Divider with N-Type Connectors
PD-0727-2M	High Power 2-way Power Divider with 4.3-10 Connectors
PD-0727-3D	High Power 3-way Power Divider with DIN 7-16 Connectors
PD-0727-3N	High Power 3-way Power Divider with N-Type Connectors
PD-0727-3M	High Power 3-way Power Divider with 4.3-10 Connectors
PD-0727-4D	High Power 4-way Power Divider with DIN 7-16 Connectors
PD-0727-4N	High Power 4-way Power Divider with N-Type Connectors
PD-0727-4M	High Power 4-way Power Divider with 4.3-10 Connectors

#### Standards & Compliance

<b>Safety</b>	EN 60950-1, UL 60950-1
<b>Emission</b>	EN 55022
<b>Immunity</b>	EN 55024
<b>Environmental</b>	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 IP66 & IP68

#### Certifications

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

