CCI

Ultra-broadband Power Divider

DATA SHEET

PDO-67-xxx

- High power, wideband, power divider at 300W from 614 to 2700 MHz
- Low RF Insertion Loss and excellent return loss performance
- Available in 2-way, 3-way and 4-way configurations
- Orderable with 7-16, 4.3-10 and N-type connectors
- Rugged outdoor rated and high reliability design
- Designed for ultra low PIM performance
- RoHS compliant

Overview

CCI's PDO-67 series of Power Dividers deliver high power performance at 300 Watts, while covering a wide frequency band 614 to 2700 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 IP67 rated housing and with IP68 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 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.

DS-PDO67xxx-V1.0-191110

DAS Products

Ultra-broadband Power Divider

PDO-67-xxx

Electrical Specification

RF Parameter			
Frequency Range	614 - 2700 MHz		
Style	2-Way	3-Way	4-Way
Insertion Loss	3.2 dB ± 0.1 dB	5.2 dB ± 0.1 dB	6.4 dB ± 0.1 dB
Coupling Variation	≤ 0.3 dB	≤ 0.4 dB	≤ 0.5 dB
Return Loss	≤ -18.0 dB		

General Characteristics	
Continuous Average Power	300 W
Peak Envelope Power	3.0 kW maximum
Impedance	50 ohms
Intermodulation Performance	<-117 dBm (-160 dBc) at 2 × +43 dBm tones

Environmental Specification

Operating Temperature	-40˚C to +65˚C
Enclosure	IP67, outdoor use
Connectors	IP68
Relative Humidity	5 - 95%

Mechanical Specification

Style	2-Way	3-Way	4-Way
Connectors	3	4	5
Housing Dimensions with 7-16 Connectors	204.7 x 33 x 33 mm	240 x 33 x 33 mm	240 x 33 x 33 mm
Housing Dimensions with 4.3-10 Connectors	193.5 x 25 x 25 mm	240 x 25 x 25 mm	240 x 25 x 25 mm
Housing Dimensions with N Connectors	193.5 x 25 x 25 mm	240 x 25 x 25 mm	240 x 25 x 25 mm
Weight, 7-16 connectors	1.5 Kg (3.3lbs)	1.8 Kg (4.0 lbs)	2.1 Kg (4.6 lbs)
Weight, 4.3-10 connectors	0.35 Kg (0.8 lbs)	0.7 Kg (1.6 lbs)	0.8 Kg (1.8 lbs)
Weight, N connectors	0.4 Kg (0.9 lbs)	0.7 Kg (1.6 lbs)	0.8 Kg (1.8 lbs)
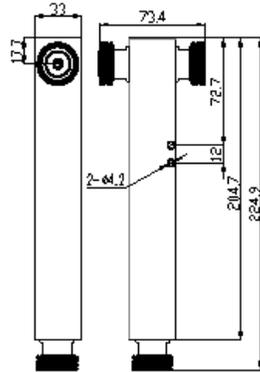
Ultra-broadband 2-way Power Divider with 7-16 Female Connectors Outline Drawing
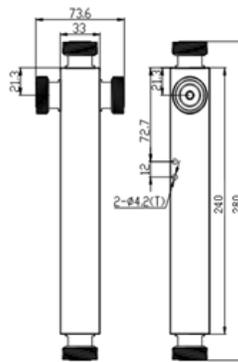

Ultra-broadband 3-way Power Divider with 7-16 Female Connectors Outline Drawing
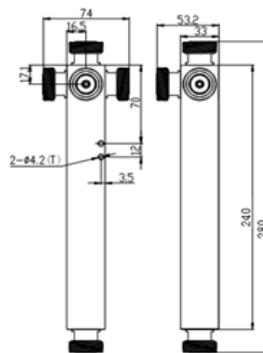
Ultra-broadband 4-way Power Divider with 7-16 Female Connectors Outline Drawing

STANDARDS & CERTIFICATIONS

Ultra-broadband Power Divider

PDO-67-xxx

Parts & Accessories

PDO-67-2F1	2-way with 7-16 female connectors
PDO-67-2F2	2-way with 4.3-10 female connectors
PDO-67-2F3	2-way with N female connectors
PDO-67-3F1	3-way with 7-16 female connectors
PDO-67-3F2	3-way with 4.3-10 female connectors
PDO-67-3F3	3-way with N female connectors
PDO-67-4F1	4-way with 7-16 female connectors
PDO-67-4F2	4-way with 4.3-10 female connectors
PDO-67-4F3	4-way with N 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

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