



# Section 4-6: Coax Power Dividers

[www.3jmicrowave.com](http://www.3jmicrowave.com)

Frequency Coverage: 18 to 60 GHz

## Applications:

- Instrumentation
- Module Assemblies
- Transceivers

## Features:

- Low Insertion Loss
- Low Return Loss
- High Isolation
- Excellent Amplitude & Phase Balances



## Descriptions:

3J Microwave, Inc. offers a complete line of coax power dividers with frequency coverage up to 60 GHz. The coax power dividers feature low insertion loss, excellent amplitude and phase balance and high isolation between the ports. 2-way, 4-way and 8-way power dividers are available. They are suitable for

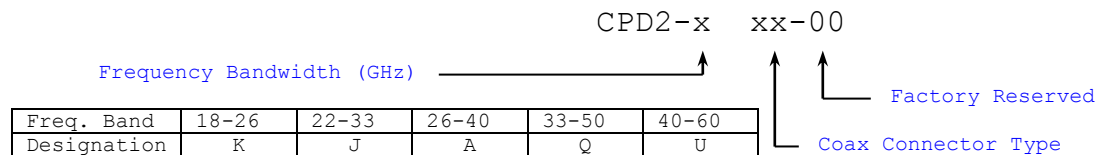
the applications of module assemblies, instrumentations, bench testing and transceivers. The coax power dividers are sorted in the following three categories: 1) **CPD2** 2-way coax power divider; 2) **CPD4** 4-way power divider; 3) **CPD8** 8-way power divider.

## CPD2 Series 2-Way Coax Power Divider Specifications:

Model No.	CPD2-xxx-00*				
Frequency Range (GHz)	18 to 26	22 to 33	26 to 40	33 to 50	40 to 60
I. L. (dB) (Typical)	1.5	2.0	2.5	3.0	4.0
Amplitude Balance (dB)	± 0.25				
Phase Balance (°)	+/- 10				
Isolation (dB)	-20 dB between co				
Return Loss (dB)	-10 dB Typical				
Connectors	SMA, K, 2.4 MM, 1.85MM				
Outline					

\* Please see "how to order" for the model number details

## How to Order:



Connector Type	SMA		2.92		2.4		1.85	
	Male	Female	Male	Female	Male	Female	Male	Female
Designation	SM	SF	KM	KF	2M	2F	VM	VF

## Model No. Example:

Model No. of a 2-Way Coax Power Divider with K-Connectors (Female) at Frequency Band of 26 to 40 GHz: CPD2-AKF-00



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### CPD4 Series 4-Way Coax Power Divider Specifications:

Model No.	CPD4-xxx-00*				
Frequency Range (GHz)	18 to 26	22 to 33	26 to 40	33 to 50	40 to 60
I. L. (dB) (Typical)	2.5	3.0	3.5	4.0	5.0
Amplitude Balance (dB)	± 0.35				
Phase Balance (°)	+/- 10				
Isolation (dB)	-23 dB between co				
Return Loss (dB)	-10 dB Typical				
Connectors	SMA, K, 2.4 MM, 1.85MM				
Outline					

\* Please see "how to order" for the model number details

### How to Order:

CPD4-x    xx-00

Frequency Band (GHz)    ↑    ↑    ↑    ↑    ↑

Freq. Band	18-26	22-33	26-40	33-50	40-60
Designation	K	J	A	Q	U

Factory Reserved

Coax Connector Type

Connector Type	SMA		2.92		2.4		1.85	
	Male	Female	Male	Female	Male	Female	Male	Female
Designation	SM	SF	KM	KF	2M	2F	VM	VF

### Model No. Example:

Model No. of a 4-Way Coax Power Divider with K-Connectors (Female) at Frequency Band of 26 to 40 GHz: CPD4-AKF-00

### CPD8 Series 8-Way Coax Power Divider Specifications:

Model No.	CPD8-xxx-00*				
Frequency Range (GHz)	18 to 26	22 to 33	26 to 40	33 to 50	40 to 60
I. L. (dB) (Typical)	3.5	4.0	4.5	5.0	6.0
Amplitude Balance (dB)	± 0.5				
Phase Balance (°)	+/- 10				
Isolation (dB)	-26 dB between co				
Return Loss (dB)	-10 dB Typical				
Connectors	SMA, K, 2.4 MM, 1.85MM				
Outline					

\* Please see "how to order" for the model number details

### How to Order:

CPD8-x    xx-00

Frequency Band (GHz)    ↑    ↑    ↑    ↑    ↑

Freq. Band	18-26	22-33	26-40	33-50	40-60
Designation	K	J	A	Q	U

Factory Reserved

Coax Connector Type

Connector Type	SMA		2.92		2.4		1.85	
	Male	Female	Male	Female	Male	Female	Male	Female
Designation	SM	SF	KM	KF	2M	2F	VM	VF

### Model No. Example:

Model No. of a 8-Way Coax Power Divider with K-Connectors (Female) at Frequency Band of 26 to 40 GHz: CPD8-AKF-00

### Outlines:

Please see Section 4-11, Page 4-27 for the outline details