

Communication Power Dividers (N type)

- 800 - 2,500 MHz Multi Band
- 30 Watt Avg. Power Rating
- Low RF Insertion Loss
- High Isolation
- Opposed N Connectors for easier installation
- Low Cost Design
- Stock Delivery



CMI's model CMI-P series of 2, 3 & 4 way Wilkinson style Power Dividers has been designed for low power applications where output isolation is preferable over lowest possible loss. The wide frequency range of this design allows use with multiband antennas and leaky cable systems. This series can be available in an in-line configuration up to 3 ways and opposite configuration for all of the CMI-P series.

Frequency Range: 800 - 2,500Hz
 Impedance: 50Ω nominal
 Temperature: -30 to +55°C
 Applications: Indoor, 0 - 90%RH
 Finish: Black epoxy paint
 Connectors: N(f)
 Housing: Passivated aluminum

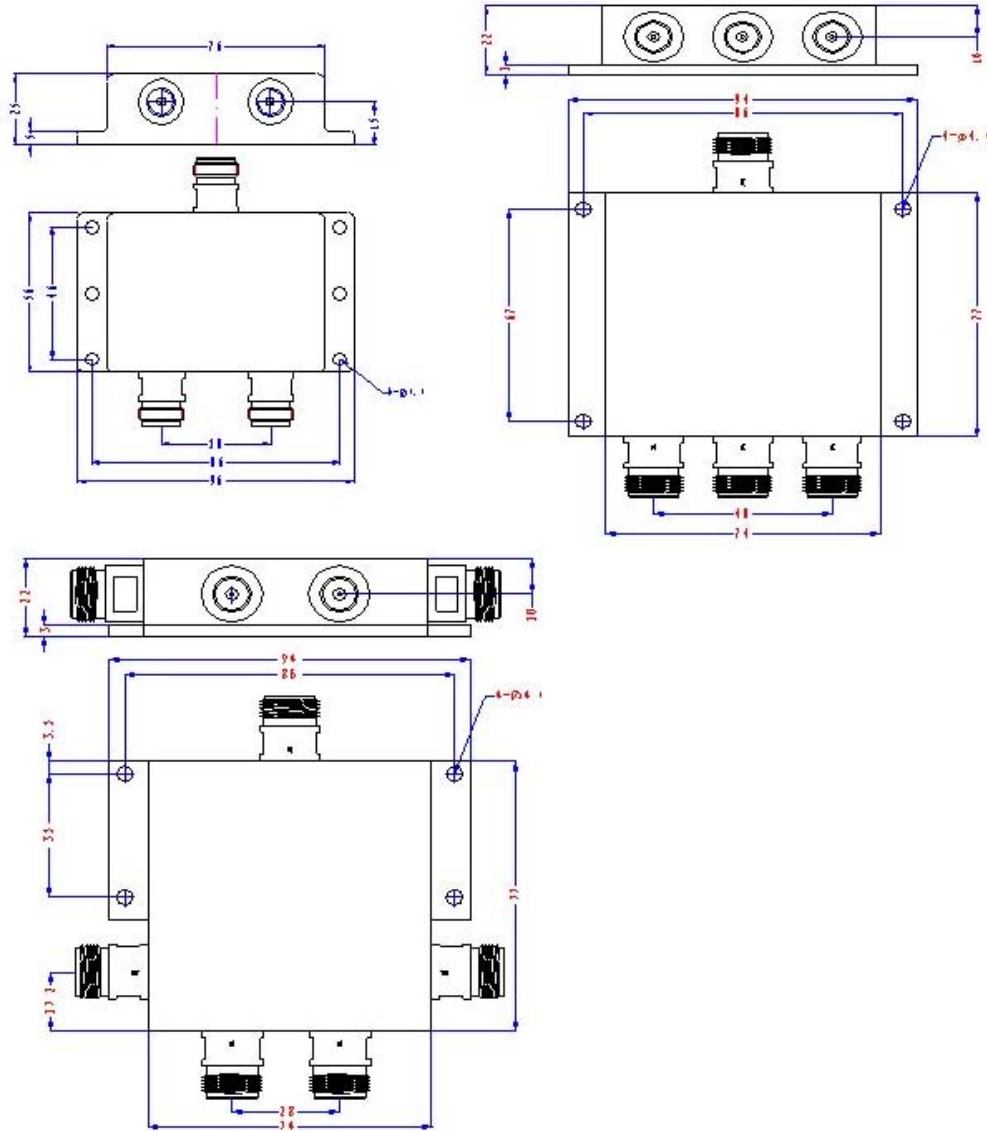
Model No. Number of Ways	Isolation dB min	Split Loss dB	Dissipative Loss, dB nom	Amplitude Balance max	Phase Balance max.	Input VSWR max.	Output VSWR max	Forward Power* max avg.	Reverse Power** avg.	Weight nom. oz (g)
CMIP-0221 2	22	3	0.4	0.3 dB	±2°	1.25:1	1.20:1	30W	5W	8.9(250)
CMIP-0321 3	20	4	0.6	0.35 dB	±3°	1.30:1	1.25:1	30W	5W	14 (400)
CMIP-0421 4	20	6	0.7	0.35 dB	±3°	1.30:1	1.25:1	30W	5W	14 (400)

*Used as divider, with Load VSWR <1.2:1 **Used as combiner

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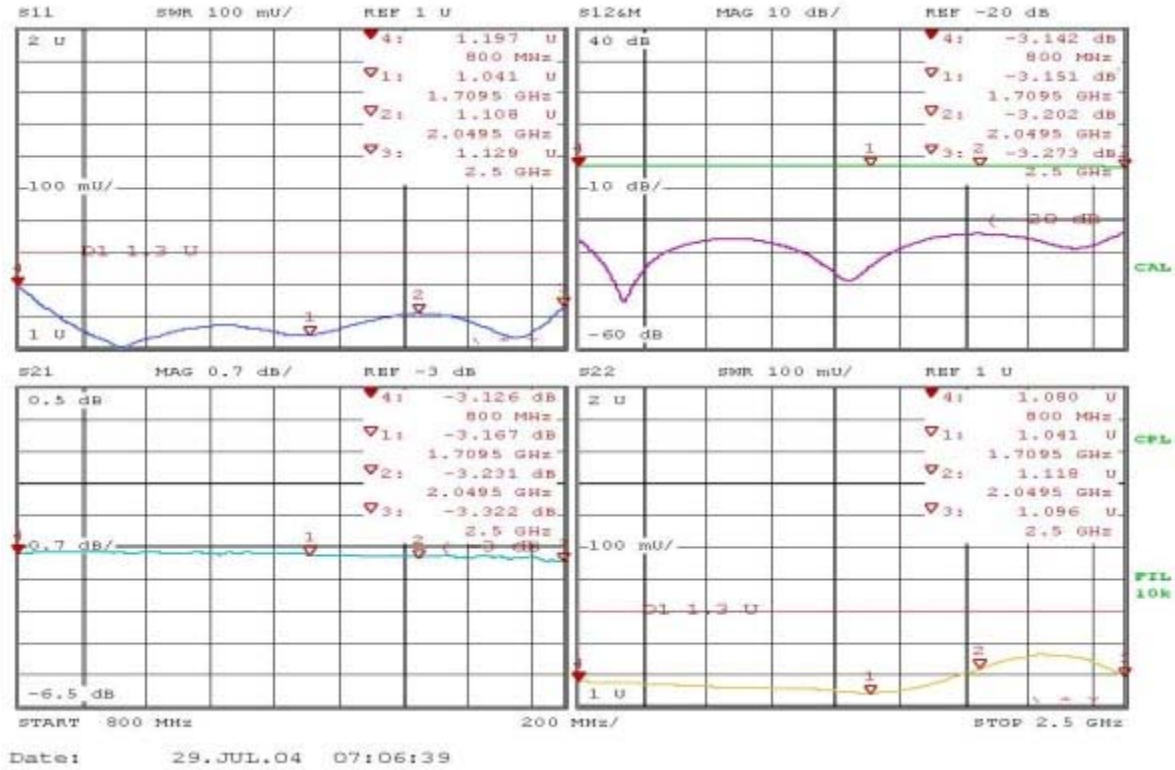


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Typical Testing Graph of CMIP-B0221:

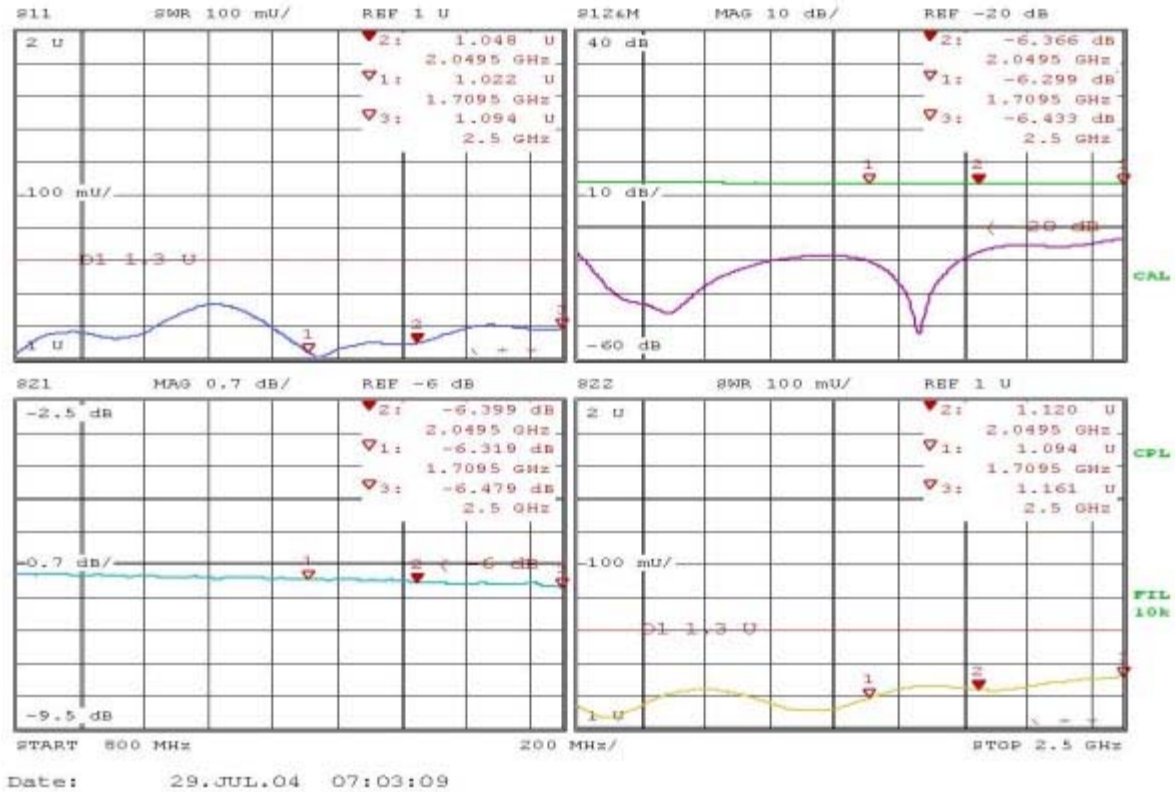


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Typical Testing Graph of CMIP-B0421:



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Ultra-Broadband Power Dividers (SMA type)

CMI-PA Series Power dividers designed, manufactured and marketed by CMI are found in applications that include complex telecommunication lab configurations, test equipment, phase arrays and specific test modules.

- **500 - 18000 MHz**
- **Multi-octave designs to 26.5GHz**
- **Excellent Phase Balance and Amplitude Tracking**
- **Low VSWR**
- **Special configurations**
- **High Isolation**
- **2, 4, 6, & 8 way configurations**
- **SMA connectors (Type N available on most models)**
- **Cost effective designs**
- **Large volume capacity**



Customers can select one of the following parts given below by module's part number to see the details from the following pages, if you cannot get the detail specifications from the selection guide below, please contact the factory.

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PRODUCT SPECIFICATION

CMI-PA Series Power Divider Selection Guide

PART NUMBER	WAYS	FREQ. RANGE	IL dB	INPUT VSWR	OUTPUT VSWR	ISO dB	POWER HANDLING'	AMPLITUDE BALANCE	PHASE BALANCE	PACKAGE OUTLINE	DIMENSION mmxmmxmm	
ULTRA-BROAD BAND POWER DIVIDERS												
CMIP-A0211	2	1-8GHz	1.2dB	1.35	1.30	18	20	3	0.3dB	6	AP26	41x28x10
CMIP-A0212	2	2-18GHz	1.2dB	1.50	1.5	16	20	3	0.4dB	5	AP25	47x24x10
CMIP-A0411	4	1-8GHz	2.0dB	1.50	1.40	15	20	3	0.4dB	10	AP46	70.5x6x10
CMIP-A0412	4	2-18GHz	2.2dB	1.65	1.50	15	20	2	0.6dB	10	AP45	60x69x10
BROAD BAND POWER DIVIDERS												
CMIP-A0220	2	0.5-2GHz	0.4dB	1.25	1.20	22	20	3	0.3dB	2	AP20	54x28x10
CMIP-A0221	2	0.8-2.4GHz	0.4dB	1.30	1.20	22	20	3	0.2dB	2	AP21	35x28x10
CMIP-A0222	2	1-4GHz	0.4dB	1.25	1.20	20	20	2	0.3dB	2	AP22	28x28x10
CMPI-A0223	2	2-8GHz	0.6dB	1.25	1.20	18	20	3	0.3dB	3	AP22	28x28x10
CMIP-A0224	2	4-18GHz	0.8dB	1.50	1.5	18	10	2	0.4dB	5		36x24x10
CMIP-A0420	4	0.5-2GHz	0.8dB	1.25	1.20	20	20	3	0.3dB	6	AP40	76x56x10
CMIP-A0421	4	0.8-2.4GHz	0.7dB	1.25	1.20	20	20	3	0.3dB	6	AP41	50x56x10
CMIP-A0422	4	1-4GHz	0.7dB	1.25	1.20	20	20	3	0.3dB	4	AP42	43x56x10
CMIP-A0423	4	2-8GHz	0.8dB	1.30	1.25	18	20	3	0.3dB	8	AP42	43x56x10
CMIP-A0424	4	4-18GHz	1.6dB	1.60	1.50	18	10	2	0.5dB	8	AP43	60x0.5x10
CMIP-A0820	8	0.5-2GHz	1.4dB	1.40	1.25	20	20	3	0.5dB	12	AP80	103x08x10
CMIP-A0821	8	0.8-2.4GHz	1.0dB	1.40	1.25	20	20	3	0.5dB	8	AP81	76x108x10
CMIP-A0822	8	1-4GHz	1.2dB	1.35	1.30	20	20	3	0.5dB	10	AP82	63x108x10
CMIP-A0823	8	2-8GHz	1.6dB	1.70	1.60	18	20	3	0.5dB	12	AP82	63x108x10
CMIP-A0824	8	4-18GHz	1.2dB	1.70	1.60	18	10	2	0.8dB	12		

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GENERAL PURPOSE POWER DIVIDERS

CMIP-A0231	2	1-2GHz	0.3dB	1.20	1.15	22	20	3	0.2dB	2	AP22	28x28x10
CMIP-A0232	2	2-4GHz	0.3dB	1.25	1.20	22	20	3	0.2dB	2	AP22	28x28x10
CMIP-A0233	2	4-8GHz	0.45dB	1.25	1.20	20	20	3	0.2dB	3	AP22	28x28x10
CMIP-A0234	2	6-18GHz	0.7dB	1.50	1.50	18	10	2	0.4dB	5	AP23	30x24x10
CMIP-A0431	4	1-2GHz	0.4dB	1.20	1.20	22	20	3	0.3dB	3	AP42	43x56x10
CMIP-A0432	4	2-4GHz	0.4dB	1.25	1.20	22	20	3	0.3dB	3	AP42	43x56x10
CMIP-A0433	4	4-8GHz	0.6dB	1.30	1.25	18	20	3	0.3dB	3	AP42	43x56x10
CMIP-A0434	4	6-18GHz	1.3dB	1.60	1.50	18	20	2	0.5dB	8	AP43	45x0.5x10
CMIP-A0831	8	1-2GHz	0.80dB	1.25	1.20	20	20	3	0.4dB	5	AP82	63x108x10
CMIP-A0832	8	2-4GHz	0.80dB	1.25	1.20	20	20	3	0.4dB	5	AP82	63x108x10
CMIP-A0833	8	4-8GHz	1.40dB	1.50	1.25	18	20	2	0.6dB	10	AP82	63x108x10
CMIP-A0834	8	6-18GHz	1.60dB	1.70	1.30	18	10	2	0.6dB	14		

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Reactive Dividers

- 2 to 6 way Power Division
- 200 Watt Average Power Rating
- Minimal RF Insertion Loss
- High Reliability
- N-female Connectors Standard
- BNC, TNC or SMA options



CMI's model CMI-PC series Power Splitters have been designed to evenly split high power signals with minimal reflections and loss. These dividers consist of radially symmetrical output branches emanating from a common junction. This junction is then transformed to the line by a series of cascaded quarter-wave transformers mounted within a coaxial housing.

General Specifications:

Power Rating: 200 W avg., 3 kW peak

Insertion Loss 0.3 dB max.

Impedance: 50 nominal

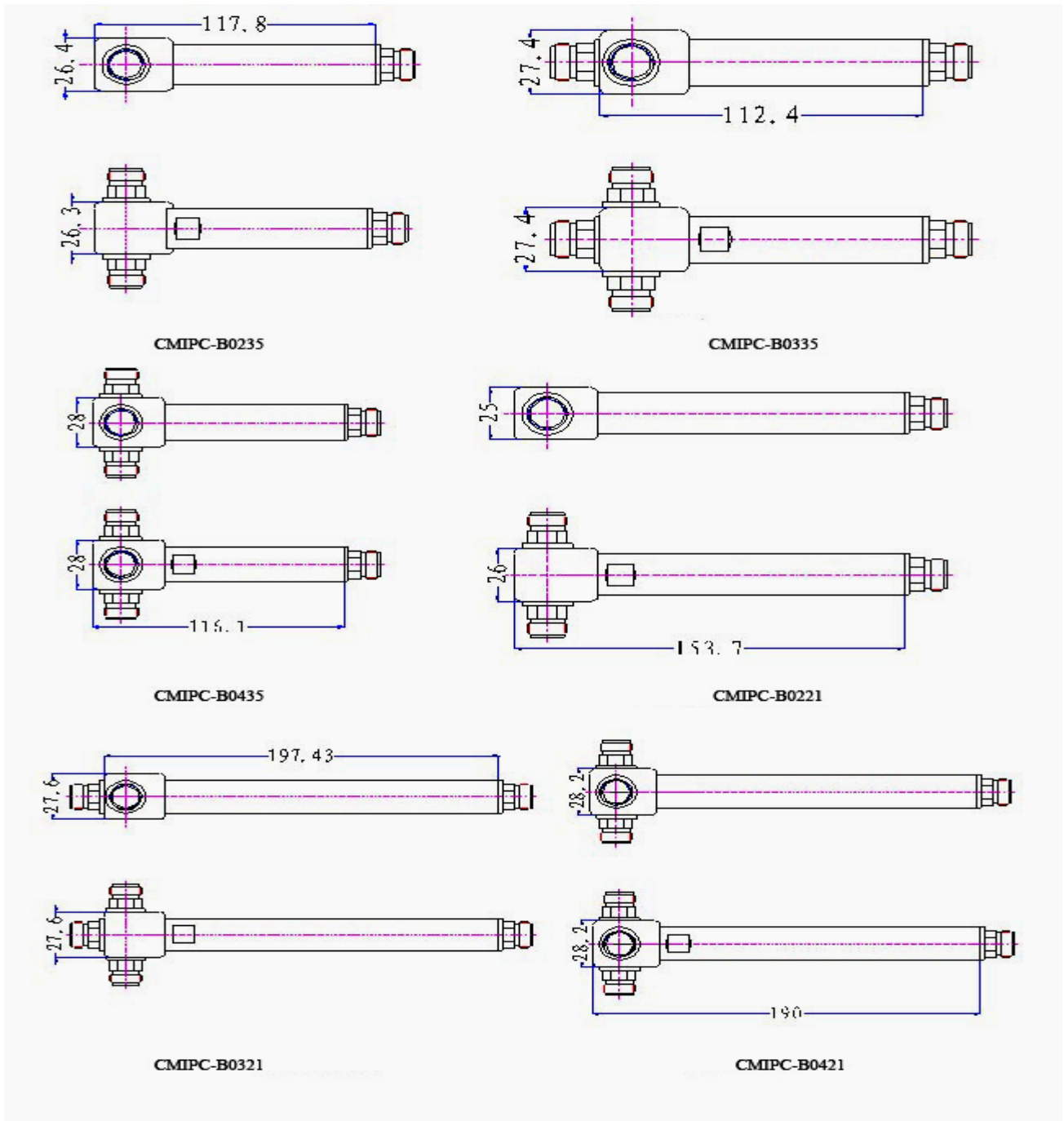
Temperature: -25°C to +55°C

Frequency Range(MHz)	2 Outputs		3 Outputs		4 Outputs	
	Part No.	Input VSWR	Part No.	Input VSWR	Part No.	Input VSWR
1700-2500	CMIPC-B0235	1.3:1	CMIPC-B0335	1.3:1	CMIPC-B0435	1.3:1
800-2500	CMIPC-B0221	1.3:1	CMIPC-B0321	1.3:1	CMIPC-B0421	1.3:1

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