

Power Dividers and Hybrids

Adapters Attenuators Couplers DC Blocks Detectors Isolators & Circulators Phase Shifters **Power Dividers and Hybrids** Terminations (50 Ohm Loads) Waveguide

SMA (F) and 2.92mm (F) 2-Way/4-Way 0.5 to 33 GHz 30 Watt (Multi-Octave)



Features

- Broadband Frequency Coverage from 0.5 to 33 GHz
- Excellent Phase and Amplitude Tracking
- Low Input VSWR
- High Isolation Between Output Ports
- Precision SMA or 2.92 mm Connectors
- Designed for MIL Environments

Models

- 4321B-2, 4325-2, 4322-2, 4324-2, 4326B-2, 4456-2, 4327C-2, 4328B-2, 4321C-4, 4322-4, 4325-4, 4324-4, 4326B-4, 4456-4

Model	4321B-2	4325-2	4322-2	4324-2	4326B-2
Low Frequency (GHz)	0.5	0.8	0.5	2.0	5.0
High Frequency (GHz)	2.0	2.2	2.5	8.0	18.0
Frequency Range (GHz)	0.5-2.0	0.8-2.2	0.5-2.5	2-4 / 4-8	5-12.4 / 12.4-18
VSWR Input	1.25:1	1.25:1	1.35:1	1.35:1	1.35:1 / 1.4:1
VSWR Output	1.15:1	1.15:1	1.15:1	1.35:1 / 1.25:1	1.30:1 / 1.35:1
Insertion Loss (max)	0.6	0.6	0.3	0.2 / 0.5	0.40 / 0.6
Isolation dB (min)	22	23	18	20	19 / 20
Amplitude Balance (max dB)	0.2	0.2	0.2	0.2	0.2
Phase Balance (Max in Deg.)	2.0	2.0	2.0	3.0 / 4.0	3.0 / 6.0
Avg. Power in Watts (A)	30	30	30	30	30
Avg. Power in Watts (B)	20	20	10	10	10
Avg. Power in Watts (C)	3	3	1	1	1
Connector Type	Type SMA Female	Type SMA Female	Type SMA Female	Type SMA Female	Type SMA Female
Maximum Weight (gr)	30	30	55	35	20
Maximum Weight (oz)	1.1	1.1	2.0	1.2	0.7
Special Notes:	A	A	A	A	A

Special Notes:

A: Average Power Rating into a load VSWR of (A) 1.2 to 1, (B) 2 to 1 and (C) ∞VSWR.

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Model	4456-2	4327C-2	4328B-2	4321C-4	4322-4
Low Frequency (GHz)	2.0	1.7	10.0	0.5	0.5
High Frequency (GHz)	18.0	26.5	33.0	2.0	2.5
Frequency Range (GHz)	2-8 / 8-18	1.7-2 / 2-18 / 18-26.5	10.0-33.0	0.5-2.0	0.5-2.5
VSWR Input	1.3:1 / 1.4:1	1.5:1 / 1.4:1 / 1.7:1	1.5:1	1.45:1	1.45:1
VSWR Output	1.25:1 / 1.4:1	1.5:1 / 1.35:1 / 1.5:1	1.5:1	1.30:1	1.25:1
Insertion Loss (max)	0.5 / 1.2	1.1 / 1.4 / 2.4	1.5	1.3	0.7
Isolation dB (min)	20 / 19	19 / 21 / 16	15	20	20
Amplitude Balance (max dB)	0.2 / 0.3	0.3	0.5	0.3	0.3
Phase Balance (Max in Deg.)	3.0 / 6.0	6.0 / 10	6.0 (10-18 GHz) / 12.0 (18-33 GHz)	4.0	4.0
Avg. Power in Watts (A)	30	30	30	30	30
Avg. Power in Watts (B)	10	10	10	10	10
Avg. Power in Watts (C)	1	2	1	1	1
Connector Type	Type SMA Female	2.92 mm Female	2.92 mm Female	Type SMA Female	Type SMA Female
Maximum Weight (gr)	38	50	22	80	165
Maximum Weight (oz)	1.4	1.8	0.8	2.9	5.8
Special Notes:	A	A	A, B	A	A

Special Notes:

A: Average Power Rating into a load VSWR of (A) 1.2 to 1, (B) 2 to 1 and (C) ∞ VSWR.

B: Custom-order basis. Minimum quantity may apply.

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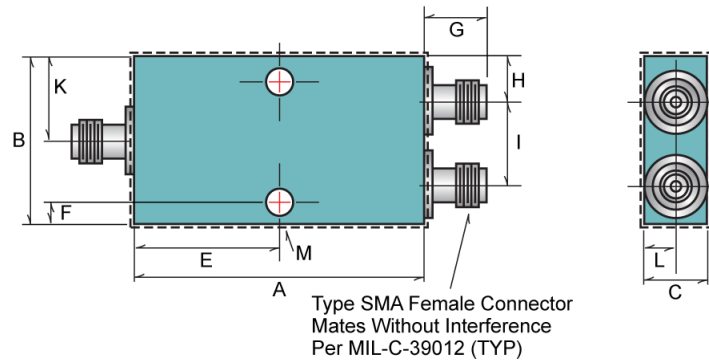
Model	4325-4	4324-4	4326B-4	4456-4
Low Frequency (GHz)	0.8	2.0	5.0	2.0
High Frequency (GHz)	2.2	8.0	18.0	18.0
Frequency Range (GHz)	0.8-2.2	2.0-8.0	5.0-18.0	2.0-18.0
VSWR Input	1.25:1	1.45:1	1.60:1 (5-6 GHz) / 1.50:1 (6-18 GHz)	1.40:1 (2-8 GHz) / 1.50:1 (8-18 GHz)
VSWR Output	1.20:1	1.35:1	1.40:1	1.40:1
Insertion Loss (max)	0.9	0.9	0.5 (5-6 GHz) / 0.9 (6-18 GHz)	1.0 (2-8 GHz) / 1.8 (8-18 GHz)
Isolation dB (min)	22	18	18 (5-6 GHz) / 19 (6-18 GHz)	20 (2-8 GHz) / 18 (8-18 GHz)
Amplitude Balance (max dB)	0.3	0.4	0.3 (5-6 GHz) / 0.5 (6-18 GHz)	0.4 (2-8 GHz) / 0.8 (8-18 GHz)
Phase Balance (Max in Deg.)	3.0	4.0	3.0 (5-6 GHz) / 6.0 (6-18 GHz)	6.0 (2-8 GHz) / 10 (8-18 GHz)
Avg. Power in Watts (A)	30	30	30	30 (2-8 GHz) / 30 (8-18 GHz)
Avg. Power in Watts (B)	10	10	10	10 (2-8 GHz) / 10 (8-18 GHz)
Avg. Power in Watts (C)	1	1	1	1 (2-8 GHz) / 1 (8-18 GHz)
Connector Type	Type SMA Female	Type SMA Female	Type SMA Female	Type SMA Female
Maximum Weight (gr)	80	120	60	120
Maximum Weight (oz)	2.9	4.3	2.2	4.3
Special Notes:	A	A	A	A

Special Notes:
A: Average Power Rating into a load VSWR of (A) 1.2 to 1, (B) 2 to 1 and (C) ∞ VSWR.
B: Custom-order basis. Minimum quantity may apply.

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Outline Drawings For Models : 4321B-2, 4325-2, 4322-2, 4324-2, 4326B-2, 4456-2

Units	A	B	C	E	F	G	H	I	K	L	M (Dia.)
4321B-2											
in.	1.20	1.34	0.34	0.60	0.10	0.38	0.10	1.15	0.67	0.19	0.11
mm	30.48	34.04	8.64	15.24	2.54	9.65	2.54	29.21	17.02	4.83	2.79
4325-2											
in.	1.20	1.04	0.34	0.60	0.10	0.38	0.10	0.50	0.67	0.19	0.11
mm	30.48	26.42	8.64	15.24	2.54	9.65	2.54	12.70	17.02	4.83	2.79
4322-2											
in.	1.56	1.70	0.38	0.78	0.10	0.38	0.60	0.50	0.85	0.19	0.11
mm	39.62	43.18	9.65	19.81	2.54	9.65	15.24	12.70	21.59	4.83	2.79
4324-2											
in.	1.69	1.00	0.38	0.84	0.09	0.38	0.25	0.50	0.50	0.19	0.11
mm	42.93	25.40	9.65	21.34	2.29	9.65	6.35	12.70	12.70	4.83	2.79
4326B-2											
in.	0.75	1.00	0.38	0.38	0.09	0.38	0.25	0.50	0.50	0.19	0.11
mm	19.05	25.40	9.65	9.65	2.29	9.65	6.35	12.70	12.70	4.83	2.79
4456-2											
in.	1.75	1.00	0.38	0.88	0.15	0.38	0.25	0.50	0.50	0.19	0.15
mm	44.45	25.40	9.65	22.35	3.81	9.65	6.35	12.70	12.70	4.83	3.81

Notes:

Dimensions are nominal and for reference only. Add .020 for sealant build up per surface. Contact the factory for detailed specifications and outline drawing.

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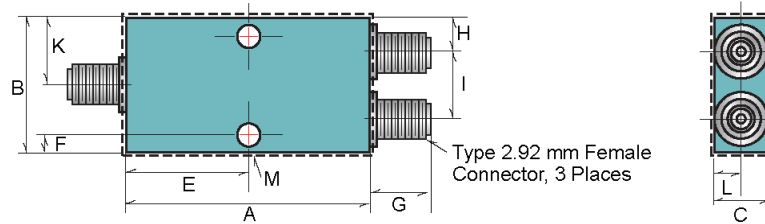
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Outline Drawings For Models : 4327C-2, 4328B-2

Units	A	B	C	E	F	G	H	I	K	L	M (Dia.)
4327C-2											
in.	2.00	1.00	0.38	1.00	0.15	0.38	0.25	0.50	0.50	0.19	0.15
mm	50.80	25.40	9.65	25.40	3.81	9.65	6.35	12.70	12.70	4.83	3.81
4328B-2											
in.	0.75	1.00	0.38	0.38	0.10	0.38	0.25	0.50	0.50	0.19	0.11
mm	19.05	25.40	9.65	9.65	2.54	9.65	6.35	12.70	12.70	4.83	2.79

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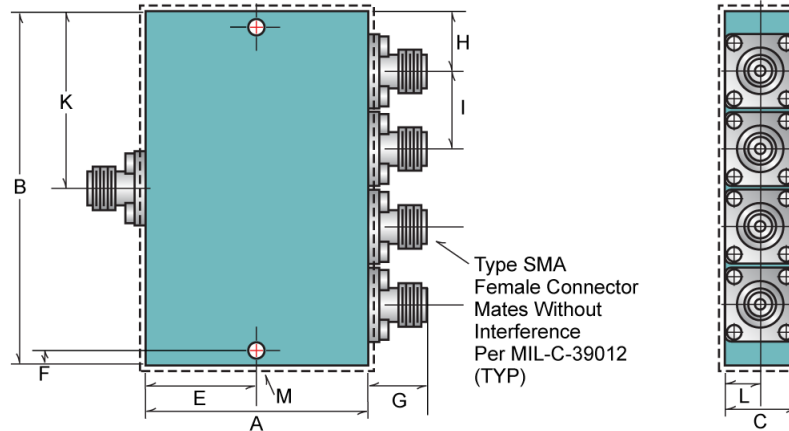
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Outline Drawings For Models : 4321C-4, 4325-4, 4324-4, 4326B-4, 4456-4

Units	A	B	C	E	F	G	H	I	K	L	M
4321C-4											
in.	2.11	1.077	0.38	1.06	0.10	0.38	0.50	0.5	1.67	0.19	0.11
mm	53.59	27.356	9.65	26.92	2.54	9.65	12.70	12.70	42.42	4.83	2.79
4325-4											
in.	2.11	1.077	.38	1.06	0.10	0.41	0.44	0.50	1.17	0.19	0.11
mm	53.59	27.356	9.65	26.92	2.54	10.41	11.18	12.70	29.72	4.83	2.79
4324-4 , 4456-4											
in.	3.45	1.94	0.38	1.72	0.13	0.38	0.22	0.50	0.97	0.19	0.15
mm	87.63	49.28	9.65	43.69	3.30	9.65	5.59	12.70	24.64	4.83	3.81
4326B-4											
in.	1.42	1.94	0.38	0.71	0.13	0.38	0.22	0.50	0.97	0.19	0.15
mm	36.07	49.28	9.65	18.03	3.30	9.65	5.59	12.70	24.64	4.83	3.81

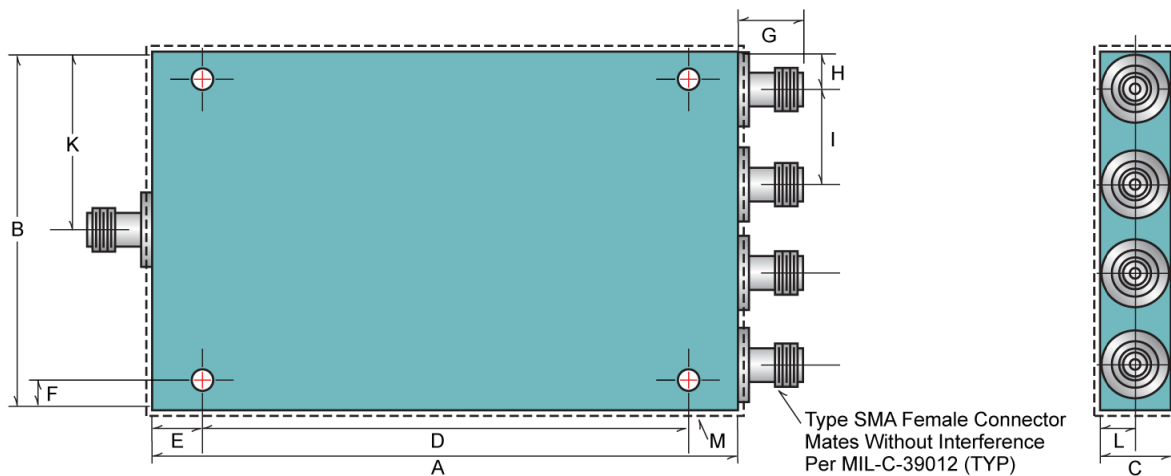
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Outline Drawings For Models : 4322-4

Units	A	B	C	D	E	F	G	H	I	K	L	M (Dia.)
4322-4												
in.	3.05	3.00	0.38	2.76	0.15	0.12	0.38	0.55	0.70	1.50	0.19	0.13
mm	77.47	76.20	9.65	70.10	3.81	3.05	9.65	13.97	17.78	38.10	4.83	3.30

Notes:

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