

POWER DIVIDERS

0° : 4-WAY

SURFACE-MOUNT MODELS



FREQUENCY RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB)			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			PACKAGE	PIN-OUT (See Below)	MODEL
	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	LB TYP/MAX	MB TYP/MAX	UB TYP/MAX			
1 - 100	23/20	--/--	25/20	0.7/1.0	--/--	0.5/1.0	1/3	--/--	2.0/3.0	0.3/0.4	--/--	0.3/0.4	159	1	SDL-140
20 - 400	25/18	--/--	20/17	1.0/1.3	--/--	1.4/1.8	1/3	--/--	3.0/5.0	0.3/0.4	--/--	0.5/0.75	159	1	SDL-120
700 - 900	--/--	--/--	25/23	--/--	--/--	1.0/1.4	--/--	--/--	4.0/6.0	--/--	--/--	0.6/0.8	129	2	SPD-C6†
1700 - 2000	--/--	--/--	22/16	--/--	--/--	0.5/0.8	--/--	--/--	5.0/7.0	--/--	--/--	0.3/0.5	233	4	M4D1720
1900-2200	--/--	--/--	25/20	--/--	--/--	0.7/1.2	--/--	--/--	3.0/5.0	--/--	--/--	0.3/0.5	219	4	DSS-1900†
2100-2400	--/--	--/--	23/20	--/--	--/--	1.0/1.2	--/--	--/--	3.0/5.0	--/--	--/--	0.3/0.5	219	4	DSS-2100†



SYNSTRIP® SURFACE MOUNT



FREQUENCY RANGE (MHz)	ISOLATION (dB) Full Band TYP/MIN	INSERTION LOSS (dB) Full Band TYP/MAX	PHASE UNBALANCE (Degrees) Full Band TYP/MAX	AMPLITUDE UNBALANCE (dB) Full band TYP/MAX	VSWR TYP/MAX	PACKAGE	PIN-OUT (See Below)	MODEL
1500 - 2500	23/16	0.3/0.5	3.0/4.0	±0.2/0.4	1.3/1.4:1	246	4	S4D1525*
2000 - 2800	23/16	0.5/0.8	3.0/5.0	±0.3/0.5	1.3/1.4:1	246	4	S4D2028*

THROUGH HOLE MOUNT (8 Pin-Relay Header)



FREQUENCY RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB)			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			PACKAGE	PIN-OUT (See Below)	MODEL
	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	LB MAX	MB MAX	UB MAX	LB MAX	MB MAX	UB MAX			
0.01-40	35/20	32/25	25/20	0.4/0.8	0.3/0.5	0.5/1.0	3	3	4	0.2	.15	0.2	102	3	DSP-206
0.1-200	33/20	30/20	27/20	0.4/0.6	0.5/.75	0.7/1.0	4	6	8	0.15	0.2	.25	102	3	DSP-2D2
0.25-250	33/20	30/20	27/20	0.4/0.7	0.5/.75	0.7/1.2	4	6	8	0.15	0.2	.25	102	3	DSP-2F2
1-200	30/20	25/20	25/20	0.4/0.7	0.5/0.9	0.7/1.2	4	6	10	0.15	0.2	0.3	102	3	DSP-2E2 ■
1-250	33/20	30/20	27/20	0.4/0.7	0.5/.75	0.7/1.2	3	3	4	0.25	0.2	0.3	102	3	DSP-204
1-500	25/20	27/20	25/20	0.6/1.2	0.8/1.5	1.4/2.2	4	4	6	0.5	0.4	0.5	102	3	DSP-207
10-1000	25/20	24/20	24/20	1.2/1.7	1.2/1.9	1.6/2.3	5	7	10	0.2	0.5	0.8	102	3	DSP-2E4 ■
1900-2130	--/--	--/--	25/20	--/--	--/--	1.8/2.4	-	-	6	-	-	0.7	102	3	DSP-247†

Power Rating (All Models) = 1 Watt, max

* Power rating = 5 watts with mismatch of 1.2:1 or less

■ 75 Ohm Model

† (UB) - Denotes full bandwidth specification

For pin location and package outline drawings, see back pages.

PIN-OUT TABLE

	INPUT	OUTPUT	CASE GROUND
#1	5	1,3,4,6	2
#2	2	1,3,4,6	All other
#3	4	1,2,7,8	All other
#4	1	2,3,4,5	All other

LB = LF to 10 LF
MB = 10 LF to HF/2
UB = HF/2 to HF

POWER DIVIDERS

0° : 4-WAY



THROUGH HOLE MOUNT (TO-8)

FREQUENCY RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB)			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			PACKAGE	PIN-OUT (See Below)	MODEL
	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	LB MAX	MB MAX	UB MAX	LB MAX	MB MAX	UB MAX			
0.01-40	35/20	32/25	25/20	0.4/0.8	0.3/0.5	0.5/1.0	3	3	4	0.2	0.15	0.2	123	3	DSP-506
1-250	33/20	30/20	27/20	0.4/0.7	0.5/.75	0.7/1.2	3	3	4	0.25	0.2	0.3	123	3	DSP-504
1-500	25/20	27/20	25/20	0.6/1.2	0.8/1.5	1.4/2.2	4	4	6	0.5	0.4	0.5	123	3	DSP-507



THROUGH HOLE MOUNT (16 Pin-Header)

FREQUENCY RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB)			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			PACKAGE	PIN-OUT (See Below)	MODEL
	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	LB MAX	MB MAX	UB MAX	LB MAX	MB MAX	UB MAX			
10-800	30/20	33/20	25/18	0.4/0.7	0.7/0.9	1.3/1.6	5.0	7.0	10	0.2	0.4	0.8	124	1	DSP-9E4 ■
10-1000	25/20	21/15	18/15	0.5/0.8	0.8/1.8	1.5/2.5	4.0	6.0	10	0.2	0.5	0.7	124	1	DSP-9D4
10-1000	25/20	25/18	20/15	0.8/1.5	1.0/2.0	1.5/2.5	4.0	6.0	10	0.4	0.5	0.7	124	1	DSP-908



247



111



169



128

COAXIAL CONNECTOR

FREQUENCY RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB)			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)			PACKAGE	PIN-OUT (See Below)	MODEL
	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MAX	MB TYP/MAX	UB TYP/MAX	LB MAX	MB MAX	UB MAX	LB MAX	MB MAX	UB MAX			
0.01-40	35/20	32/25	25/20	0.4/0.8	0.3/0.5	0.5/1.0	3.0	3.0	4.0	0.2	0.15	0.2	111	2	DSK-706*
1-200	30/20	25/20	25/20	0.4/0.7	0.5/0.9	0.7/1.2	4.0	6.0	10.0	0.15	0.2	0.3	169	2	DSK-7E2B ■
1-250	33/20	30/20	27/20	0.4/0.7	0.5/.75	0.7/1.2	3.0	3.0	4.0	.25	0.2	0.3	111	2	DSK-704*
1-500	25/20	25/20	23/20	0.8/1.2	0.6/1.2	1.0/1.5	4.0	3.0	5.0	0.4	0.3	0.4	111	2	DSK-707*
1-1000	25/15	25/20	20/15	0.6/1.5	1.0/2.0	1.5/2.5	5.0	6.0	8.0	0.5	0.5	0.5	111	2	DSK-708*
5-2000	25/20	20/15	20/15	1.3/1.8	1.0/2.3	2.5/2.8	2.0	4.0	8.0	0.2	0.4	0.6	247	2	DSK-745S
10-500	33/25	30/25	28/25	0.5/0.7	0.7/.85	.85/1.0	2.0	4.0	6.0	0.2	0.2	0.4	128	2	DSK-711S
20-1000	30/25	30/23	25/20	0.6/1.2	0.8/1.3	1.0/1.5	3.0	4.0	8.0	0.3	0.4	0.5	128	2	DSK-713S
30-1000	30/25	30/25	30/25	0.8/1.0	0.8/1.0	0.8/1.1	2.0	3.5	8.0	0.3	0.3	0.5	128	2	DSK-705S

Power Rating (All Models) = 1 Watt, max

* Select female connector suffix: "B" = BNC, "S" = SMA, "N" = Type N, "T" = TNC

■ 75 Ohm Model

For pin location and package outline drawings, see back pages.

LB = LF to 10 LF
MB = 10 LF to HF/2
UB = HF/2 to HF

PIN-OUT TABLE

	INPUT	OUTPUT	CASE GROUND
#1	2	5,8,9,12	All other
#2	1	2,3,4,5	All other
#3	2	4,6,10,12	All Other

