

# 8-WAY POWER DIVIDER

## SURFACE MOUNT MODEL: DSS-585

WIDE BANDWIDTH

5 - 1000 MHz

### SPECIFICATION SHEET REVISION RECORD

REV	COMMENT	BY	DATE																																																																																														
--	Initial Release	TA																																																																																															
A	Changed Page format and updated specifications to reflect plots.	TA	12/13/06																																																																																														
B	Plots updated.	TA	03/12/07																																																																																														
C	Plots updated.	TA	10/07/08																																																																																														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th colspan="2" style="text-align: center;">OLD</th> <th colspan="3" style="text-align: center;">NEW</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;"><b>Insertion Loss (dB) *</b></td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Max.</td> <td style="text-align: center;">Freq. (MHz)</td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Max.</td> </tr> <tr> <td style="text-align: center;">1.6</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">5 - 50</td> <td style="text-align: center;">1.0</td> <td style="text-align: center;">1.3</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">50 - 500</td> <td style="text-align: center;">1.1</td> <td style="text-align: center;">1.9</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">500 - 1000</td> <td style="text-align: center;">1.2</td> <td style="text-align: center;">2.0</td> </tr> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;"><b>Isolation (dB)</b></td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Min.</td> <td style="text-align: center;">Freq. (MHz)</td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Min.</td> </tr> <tr> <td style="text-align: center;">23</td> <td style="text-align: center;">17</td> <td style="text-align: center;">5 - 50</td> <td style="text-align: center;">35</td> <td style="text-align: center;">27</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">50 - 500</td> <td style="text-align: center;">23</td> <td style="text-align: center;">18</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">500 - 1000</td> <td style="text-align: center;">23</td> <td style="text-align: center;">17</td> </tr> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;"><b>Phase Unbalance</b></td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Max.</td> <td style="text-align: center;">Freq. (MHz)</td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Max.</td> </tr> <tr> <td style="text-align: center;"><math>\pm 2.0^\circ</math></td> <td style="text-align: center;"><math>\pm 3.5^\circ</math></td> <td style="text-align: center;">5 - 50</td> <td style="text-align: center;">0.5</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">50 - 500</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">4.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">500 - 1000</td> <td style="text-align: center;">2.0</td> <td style="text-align: center;">5.0</td> </tr> <tr> <td rowspan="3" style="text-align: center; vertical-align: middle;"><b>Amplitude Unbalance (dB)</b></td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Max.</td> <td style="text-align: center;">Freq. (MHz)</td> <td style="text-align: center;">Typ.</td> <td style="text-align: center;">Max.</td> </tr> <tr> <td style="text-align: center;"><math>\pm 0.1</math></td> <td style="text-align: center;"><math>\pm 0.3</math></td> <td style="text-align: center;">5 - 50</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;">0.1</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">50 - 500</td> <td style="text-align: center;">0.2</td> <td style="text-align: center;">0.4</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">500 - 1000</td> <td style="text-align: center;">0.2</td> <td style="text-align: center;">0.5</td> </tr> </tbody> </table>				OLD		NEW			<b>Insertion Loss (dB) *</b>	Typ.	Max.	Freq. (MHz)	Typ.	Max.	1.6	2.0	5 - 50	1.0	1.3			50 - 500	1.1	1.9				500 - 1000	1.2	2.0	<b>Isolation (dB)</b>	Typ.	Min.	Freq. (MHz)	Typ.	Min.	23	17	5 - 50	35	27			50 - 500	23	18				500 - 1000	23	17	<b>Phase Unbalance</b>	Typ.	Max.	Freq. (MHz)	Typ.	Max.	$\pm 2.0^\circ$	$\pm 3.5^\circ$	5 - 50	0.5	1.0			50 - 500	2.0	4.0				500 - 1000	2.0	5.0	<b>Amplitude Unbalance (dB)</b>	Typ.	Max.	Freq. (MHz)	Typ.	Max.	$\pm 0.1$	$\pm 0.3$	5 - 50	0.05	0.1			50 - 500	0.2	0.4				500 - 1000	0.2	0.5
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