

**COMBINED OUTPUT and REJECT LOSSES for VARIOUS COMBINATIONS of INPUT POWER to a 90 DEGREE HYBRID**

Notes: Powers in each port are in % of normal combined output power.				
To avoid boolean logic in algebraic expressions, input to port "A" is always assumed to be the larger of the two inputs.				
Cases highlighted in	<b>RED</b>	are commonly observed.		
OUTPUT PORT	INPUT PORT A	INPUT PORT B	REJECT PORT	
100	50	50	0	
92.5	50	45	2.5	
85	50	40	5	
77.5	50	35	7.5	
70	50	30	10	
<b>62.5</b>	<b>50</b>	<b>25</b>	<b>12.5</b>	
55	50	20	15	
47.5	50	15	17.5	
40	50	10	20	
32.5	50	5	22.5	
<b>25</b>	<b>50</b>	<b>0</b>	<b>25</b>	
102.5	55	50	2.5	
105	60	50	5	
107.5	65	50	7.5	
110	70	50	10	
112.5	75	50	12.5	