

Power Dividers and Combiners

SPECK offers in-phase (Wilkinson) Power Dividers and Combiners in the frequency range from HF through 12 GHz. Power Divider is basically a passive network with one input and n in-phase outputs. They can be designed to have very good amplitude balance between the output ports. They have high isolation between the output signals. The number of output ports available in standard models are 2, 3 and 4. A simple single section device provides up to octave bandwidth. However, for multi-octave bandwidth, multi-section upto 8 sections are generally used. They are realised both in stripline and microstrip technology depending upon the user requirement. SPECK has the expertise in development of power dividers and combiners, which can handle power of the order of 1 KW. High power combiners are available in 2-way, 3-way and 4-way configuration only.



Features

- Low insertion loss
- Better coupling
- Excellent phase and Amplitude balance
- Low VSWR
- Rugged and high Power handling

Speck offers 2, 4 and 8 way dividers and combiners

Frequency Range	In Phase					90 deg Phase				
	Insertion Loss	Isolation dB (min)	VSWR	Phase unbalance (Deg)	Amplitude unbalance (dB)	Insertion Loss	Isolation dB (min)	VSWR	Phase unbalance (Deg)	Amplitude unbalance (dB)
1-30 MHz	0.4	25	1.5:1	2	0.4	0.4	30	1.5:1	3	1
365-400 MHz	0.5	20	1.5:1	1	0.3	0.5	25	1.5:1	3	1
400-470 MHz	0.4	25	1.5:1	1	0.2	0.5	25	1.5:1	3	1.2
512-620 MHz	0.5	25	1.5:1	1	0.4	0.5	25	1.5:1	3	1.2
620-750 MHz	0.5	20	1.5:1	2	0.3	0.5	25	1.5:1	3	1.2
800-960 MHz	0.8	25	1.5:1	1	0.2	0.8	25	1.5:1	4	1.2
1GHz-2 GHz	0.8	25	1.5:1	2	0.4	0.8	20	1.5:1	4	1
2GHz-3 GHz	0.8	20	1.5:1	2	0.5	0.8	20	1.5:1	4	1.2
3GHz-4.5 GHz	0.8	20	1.5:1	2	0.5	0.8	20	1.5:1	3	1.2
4.5GHz-6 GHz	1	20	1.5:1	2	0.5	0.8	20	1.5:1	4	1.2