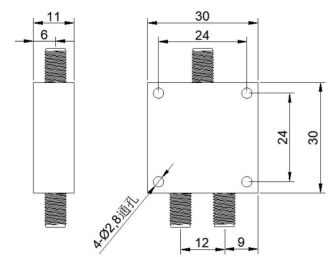


6–18 GHz Two-Way RF Power Divider, 10 W CW

The divider splits 6–18 GHz signals into two paths with 10 W CW power handling. Insertion loss is 0.5 dB typical and 0.7 dB maximum; isolation is at least 20 dB.



Electrical specifications

Parameter	Value	Unit	Notes
Frequency range	6–18	GHz	Minimum: 6 GHz. Maximum: 18 GHz.
Insertion loss	0.5 / 0.7	dB	Typical: 0.5 dB. Maximum: 0.7 dB.
Isolation	≥20	dB	Minimum: 20 dB.
Input VSWR	1.4 / 1.6	-	Typical: 1.4. Maximum: 1.6.
Output VSWR	1.4 / 1.6	-	Typical: 1.4. Maximum: 1.6.
Amplitude balance	≤0.5	dB	Maximum: 0.5 dB.
Phase balance	≤6	°	Maximum: 6 °.

General specifications

Parameter	Value	Unit
CW power handling	10	W
Number of ways	2	-
Phase difference	0	°
Impedance	50	Ω
Connector type	SMA-K	-
Operating temperature	–40–+70 (Design guaranteed. Minimum: -40 °C. Maximum: 70 °C.)	°C

Typical electrical performance

Parameter	Value	Unit	Notes
S12 — 6 GHz	-3.10	dB	6 GHz Typical: -3.1 dB.
S23 — 6 GHz	-20.8	dB	6 GHz Typical: -20.8 dB.
S11 VSWR — 6 GHz	1.25	-	6 GHz Typical: 1.25.
S22 VSWR — 6 GHz	1.27	-	6 GHz Typical: 1.27.
S12 — 7 GHz	-3.10	dB	7 GHz Typical: -3.1 dB.

Typical electrical performance

Parameter	Value	Unit	Notes
S23 — 7 GHz	-29.6	dB	7 GHz Typical: -29.6 dB.
S11 VSWR — 7 GHz	1.12	-	7 GHz Typical: 1.12.
S22 VSWR — 7 GHz	1.18	-	7 GHz Typical: 1.18.
S12 — 8 GHz	-3.13	dB	8 GHz Typical: -3.13 dB.
S23 — 8 GHz	-30.8	dB	8 GHz Typical: -30.8 dB.
S11 VSWR — 8 GHz	1.16	-	8 GHz Typical: 1.16.
S22 VSWR — 8 GHz	1.14	-	8 GHz Typical: 1.14.
S12 — 9 GHz	-3.15	dB	9 GHz Typical: -3.15 dB.
S23 — 9 GHz	-24.7	dB	9 GHz Typical: -24.7 dB.
S11 VSWR — 9 GHz	1.31	-	9 GHz Typical: 1.31.
S22 VSWR — 9 GHz	1.15	-	9 GHz Typical: 1.15.
S12 — 10 GHz	-3.19	dB	10 GHz Typical: -3.19 dB.
S23 — 10 GHz	-31.9	dB	10 GHz Typical: -31.9 dB.
S11 VSWR — 10 GHz	1.23	-	10 GHz Typical: 1.23.
S22 VSWR — 10 GHz	1.16	-	10 GHz Typical: 1.16.
S12 — 11 GHz	-3.30	dB	11 GHz Typical: -3.3 dB.
S23 — 11 GHz	-24.3	dB	11 GHz Typical: -24.3 dB.
S11 VSWR — 11 GHz	1.47	-	11 GHz Typical: 1.47.
S22 VSWR — 11 GHz	1.27	-	11 GHz Typical: 1.27.
S12 — 12 GHz	-3.21	dB	12 GHz Typical: -3.21 dB.
S23 — 12 GHz	-20.5	dB	12 GHz Typical: -20.5 dB.
S11 VSWR — 12 GHz	1.33	-	12 GHz Typical: 1.33.
S22 VSWR — 12 GHz	1.21	-	12 GHz Typical: 1.21.
S12 — 14 GHz	-3.32	dB	14 GHz Typical: -3.32 dB.
S23 — 14 GHz	-38.2	dB	14 GHz Typical: -38.2 dB.
S11 VSWR — 14 GHz	1.36	-	14 GHz Typical: 1.36.
S22 VSWR — 14 GHz	1.21	-	14 GHz Typical: 1.21.
S12 — 15 GHz	-3.26	dB	15 GHz Typical: -3.26 dB.
S23 — 15 GHz	-27.7	dB	15 GHz Typical: -27.7 dB.
S11 VSWR — 15 GHz	1.07	-	15 GHz Typical: 1.07.
S22 VSWR — 15 GHz	1.28	-	15 GHz Typical: 1.28.

Typical electrical performance

Parameter	Value	Unit	Notes
S12 — 17 GHz	-3.28	dB	17 GHz Typical: -3.28 dB.
S23 — 17 GHz	-22.8	dB	17 GHz Typical: -22.8 dB.
S11 VSWR — 17 GHz	1.39	-	17 GHz Typical: 1.39.
S22 VSWR — 17 GHz	1.32	-	17 GHz Typical: 1.32.
S12 — 18 GHz	-3.29	dB	18 GHz Typical: -3.29 dB.
S23 — 18 GHz	-23.8	dB	18 GHz Typical: -23.8 dB.
S11 VSWR — 18 GHz	1.31	-	18 GHz Typical: 1.31.
S22 VSWR — 18 GHz	1.42	-	18 GHz Typical: 1.42.

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.