

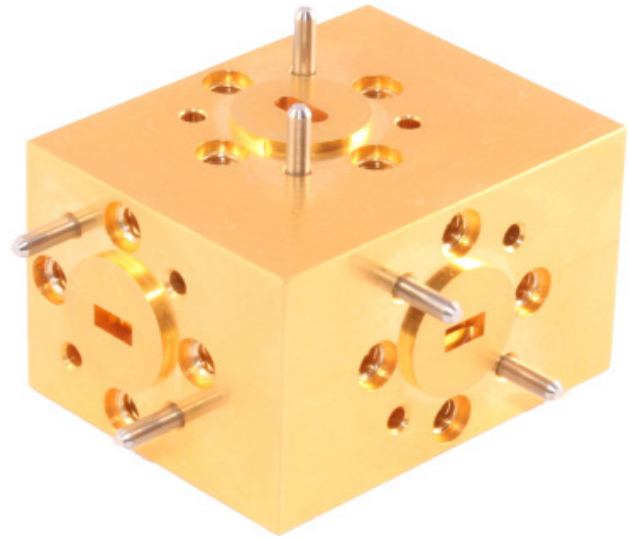


FLANN MICROWAVE

Matched Hybrid Tee (Magic Tee) Series 385

Features

- Models from 2.6 to 330 GHz
- Excellent balance
- High E-H port isolation
- High Co-linear isolation
- Good VSWR
- Full waveguide band



Model 25385

The Model 385 matched hybrid (magic) tees are 4-port devices which can be used for splitting and combining signals in communications applications and for test and measurement. Each tee is optimised to produce the best combination of matching, balance and isolation.

The magic tee has H-plane (sum), E-plane (difference) and two co-linear ports. A signal applied at either the H-plane or E-plane port will split equally between the two co-linear ports. The outputs will be in-phase for an input at the H-plane port, and 180° out of phase if the input is at the E-plane port. Applying signals of equal magnitude at the co-linear ports will result in their summation at the H-plane port and the difference signal at the E-plane port.

The Model 385 tees have excellent isolation between H and E-plane ports and between the two co-linear ports.

Related Products

Series

400: Matched E Plane Tee

410: Matched H Plane Tee

Custom Design

Custom built instruments can be supplied; please contact the sales team for more information. We can also offer higher power versions with extra cooling, integrated E or H terminations, TVAC and optional materials & finishes.

Ordering

Please specify the following:

WG designation	Series	-	Flange
10 - 32	385		See flann.com

Example: 25385 UG-385/U is a WG25 (WR15) Matched Hybrid Tee with UG-385/U flanges.

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Matched Hybrid Tee (Magic Tee)

Series 385

Microwave Specifications

Model	Frequency Range (GHz)	Waveguide			VSWR (max)	Insertion Loss (dB max)	Power Balance (dB)	Phase Balance	E-H Isolation (dB min.)	Co-linear Isolation (dB min.)
		WG	R	WR						
10385	2.6 - 3.95	10	32	284	1.20	0.07	0.1	1.0 °	35	24
11A385	3.22 - 4.9	11A	40	229	1.20	0.07	0.1	1.1 °	35	24
12385	3.94 - 5.99	12	48	187	1.20	0.1	0.1	1.2 °	35	24
13385	4.64 - 7.05	13	58	159	1.25	0.1	0.1	1.3 °	35	24
14385	5.38 - 8.18	14	70	137	1.25	0.1	0.1	1.3 °	35	24
15385	6.58 - 10.0	15	84	112	1.25	0.1	0.1	1.4 °	35	24
16385	8.2 - 12.5	16	100	90	1.25	0.1	0.1	1.4 °	35	24
17385	9.84 - 15.0	17	120	75	1.25	0.1	0.1	1.5 °	35	24
18385	11.9 - 18.0	18	140	62	1.27	0.13	0.12	1.6 °	35	23
19385	14.5 - 22.0	19	180	51	1.27	0.15	0.12	1.6 °	35	23
20385	17.6 - 26.7	20	220	42	1.3	0.15	0.15	1.7 °	33	23
21385	21.7 - 33.0	21	260	34	1.3	0.15	0.15	1.7 °	33	23
22385	26.4 - 40.1	22	320	28	1.3	0.2	0.15	1.8 °	32	23
23385	33.0 - 50.1	23	400	22	1.35	0.25	0.2	1.9 °	31	22
24385	39.3 - 59.7	24	500	19	1.4	0.3	0.2	2.0 °	30	21
25385	49.9 - 75.8	25	620	15	1.4	0.35	0.2	2.1 °	30	20
26385	60.5 - 92	26	740	12	1.4	0.4	0.25	2.3 °	30	19
27385	73.8 - 112	27	900	10	1.4	0.5	0.25	2.7 °	30	19
28385	92.3- 140	28	1200	08	1.5	0.7	0.3	3.2 °	28	18
29385	114 - 173	29	1400	06	1.55	0.9	0.4	4.3 °	26	16
30385	145 - 220	30	1800	05	1.65	1.2	0.5	6.0 °	25	14
31385	172-261	31	2200	04	1.75	1.5	0.7	8.0°	22	12
32385	217-330	62	2600	03	2.0	2.0	1.0	10.0°	20	10

Environmental Specifications

Operating temperature range: -40 to 85°C

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