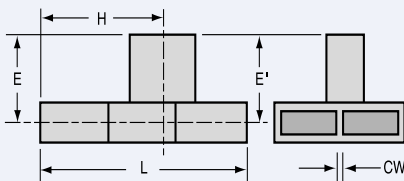
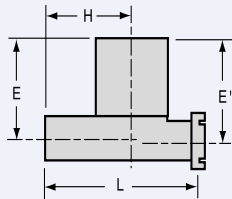
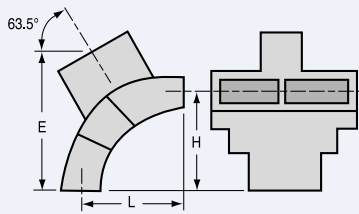


# H Plane Folded Hybrid Tees



W/G Size	Electrical Data										Mechanical Data			
	Frequency GHz	Model Number	*VSWR Maximum		Isolation DB Min Between			Dimensions (inches)			Common Wall Thickness (inches)	Terminations		Recommended Dual Flange <sup>12</sup>
			H Arm	E Arm	E & H Arms	Parallel Arms	Unbalanced DB Max.	L	E	H		E & H Arms	Parallel Arms	
<b>WR10</b>	91.75-95.75	10TH16 <sup>2</sup>	1.25	1.25	34	19	.25	1.12	0.38	0.56	.040	Cover <sup>16</sup> Flange	50FS12	10FS12
<b>WR15</b>	50.0-60.0	15TH26 <sup>2</sup>	1.30	1.30	35	18	.25	1.00	0.56	0.50	.040	UG385/U	15FS52	15FS52
	67.0-73.0	15TH16 <sup>2</sup>	1.30	1.30	35	18	.25							
<b>WR22</b>	43.5-45.5	22TH12	1.15	1.15	40	-	.20	1.04	0.60	0.60	.040	WG	CORRAL	-
<b>WR28</b>	29.0-33.2	28TH42	1.25	1.25	35	22	.25	0.97	0.72	0.48	.040	WG	CORRAL	28FS12
	33.0-39.5	28TH22	1.35	1.35	35	22	.25							
	34.0-36.0	28TH12	1.20	1.20	35	22	.25							
<b>WR42</b>	20.2-21.2	42TH22	1.20	1.20	40	20	.15	1.26	0.71	0.71	.090	WG	CORRAL	42FS32
	22.5-26.0	42TH12	1.15	1.20	35	25	.10	0.95	0.76	0.48	.090	WG	CORRAL	42FS32
<b>WR51</b>	16.0-17.0	51TH22	1.12	1.15	40	28	.10	1.00	0.92	0.66	.040	WG	CORRAL	51FS12 <sup>3</sup>
	16.50-19.65	51TH12	1.15	1.15	40	28	.10	1.39	0.92	0.80	.040	WG	CORRAL	51FS12 <sup>3</sup>
<b>WR62</b>	12.4-14.5	62TH32	1.10	1.10	40	28	.10	1.75	0.92	0.91	.040	WG	CORRAL	62FS52
	14.5-15.0	62TH32	1.15	1.15	40	25	.10							
	13.5-15.6	62TH12	1.12	1.10	40	28	.10	1.61	0.91	0.92	.040	WG	CORRAL	62FS52 <sup>3</sup>
	15.0-17.5	62TH22	1.12	1.10	40	28	.10	1.81	0.81	0.95	.090	WG	CORRAL	62FS92
	15.5-17.0	62TH42	1.08	1.10	40	30	.10							
<b>WR75</b>	10.5-11.7	75TH12	1.10	1.10	40	28	.10	1.77	0.92	0.80	.050	WG	CORRAL	75FS12
	11.0-12.85	75TH22	1.15	1.15	40	25	.10	1.96	1.09	1.10	.050	WG	CORRAL	75FS12
<b>WR90</b>	8.2-10.0	90TH32	1.15	1.25	40	24	.10	2.78	1.75	1.50	.120	WG	CORRAL	90FS112
	8.5-9.6	90TH32	1.10	1.12	40	28	.10							
	8.5-9.6	90TH52	1.12	1.20	40	24	.10	1.47	1.12	0.75	.050	WG	CORRAL	90FS82 <sup>3</sup>
	8.5-9.6	90TH12	1.10	1.10	40	28	.10	2.22	1.75	1.50	.050	WG	CORRAL	90FS82 <sup>3</sup>
	8.5-9.6	90TH42	1.06	1.10	45	32	.10	2.78	1.75	1.50	.120	WG	CORRAL	90FS112 <sup>3</sup>
	8.65-11.0	90TH62	1.25	1.25	40	20	.10	2.53	1.75	1.50	.120	WG	CORRAL	90FS112 <sup>3</sup>
	8.8-11.2	90TH72	1.25	1.25	30	18	.10	1.27	1.12	0.82	.050 <sup>13</sup>	COR.	CORRAL	NONE
	9.2-10.0	90TH72	1.15	1.15	35	25	.10							
	10.2-12.4	90TH102	1.20	1.15	40	28	.10	2.18	1.18	1.20	.120	WG	CORRAL	90FS112
<b>WR90 tapered to WR112</b>	8.5-9.6	90TH22	1.10	1.10	40	28	.10	2.41	E=1.25 E'=1.30	1.50	.120	WR112 WG	WR90 CORRAL	90FS122
<b>WR90</b> 200 Hgt.	9.0-10.8	A90TH12	1.10	1.10	40	28	.10	2.00	0.98	1.10	.050	WG	CORRAL	
<b>WR102</b>	9.5-10.5	102TH12	1.10	1.10	40	28	.10	2.75	1.75	1.56	.150	WG	CORRAL	

**Notes:** <sup>\*</sup>All tees exhibit reasonable electrical characteristics over a broader frequency range than specified. Maximum VSWR's specified does not indicate typical performance but only the highest VSWR over the operating range of the tee.

<sup>2</sup> Available only in copper alloy with flanges.

<sup>3</sup> This flange is integral cast to the tee.

<sup>7</sup> Add 0.17 to Dimension "L" when using recommended dual flange.

<sup>8</sup> E=E' and H=H' unless otherwise shown.

<sup>9</sup> Available only in non-brazable aluminum with flanges.

<sup>10</sup> Available only in aluminum with flanges.

<sup>12</sup> SEE FOOTNOTE ON NEXT PAGE

<sup>13</sup> No physical commonwall. 0.050 commonwall required by mating component to function electrically.

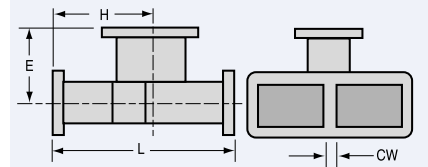
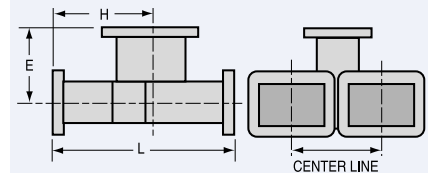
<sup>15</sup> No physical commonwall. 0.160 commonwall required by mating component to function electrically.

<sup>16</sup> Similar to UG387/U

# H Plane Folded Hybrid Tees

H PLANE FOLDED HYBRID TEES

W/G Size	Electrical Data										Mechanical Data				
	Frequency GHz	Model Number	*VSWR Maximum		Isolation DB Min Between	E & H Arms	Parallel Arms	Unbalance DB Max.	Dimensions (inches)			Common Wall Thickness (inches)	Terminations		Recommended Dual Flange 12
			H Arm	E Arm					L	E	H		E & H Arms	Parallel Arms	
<b>WR112</b>	7.0-8.75	112TH32	1.25	1.25	40	20	.10	2.87	1.44	1.56	.150	WG	CORRAL	112FS82 <sup>3</sup>	
	7.5-8.5	112TH42	1.10	1.10	40	28	.10								
	7.8-9.6	112TH82	1.25	1.50	40	20	.10	2.75	1.25	1.56	.150	WG	CORRAL	112FS82 <sup>3</sup>	
	8.25-10.25	112TH62	1.15	1.15	40	25	.10	2.75	1.25	1.56	.150	WG	CORRAL	112FS82 <sup>3</sup>	
	8.5-9.6	112TH72	1.10	1.15	40	25	.10								
	8.5-9.6	112TH52	1.10	1.10	40	30	.10	2.75	1.25	1.56	.064	WG	CORRAL	112FS62 <sup>3</sup>	
	8.5-9.6	112TH12	1.08	1.10	40	30	.10	2.75	1.25	1.56	.150	WG	CORRAL	112FS82 <sup>3</sup>	
<b>WR137</b>	5.4-5.9	137TH62	1.10	1.10	40	28	.10	4.11	2.15	1.95	.150	WG	CORRAL	137FS32 <sup>3</sup>	
	5.9-6.5	137TH22	1.10	1.10	40	28	.10	3.81	1.75	2.25	.150	WG	CORRAL	137FS32 <sup>3</sup>	
	6.0-7.0	137TH32	1.10	1.10	40	28	.10	3.81	1.56	2.25	.150	WG	CORRAL	137FS32 <sup>3</sup>	
	6.6-8.2	137TH42	1.15	1.15	40	25	.10								
	6.8-8.0	137TH72	1.10	1.10	40	28	.10								
<b>WR137 tapered to WR187</b>	5.4-5.9	137TH12	1.08	1.08	40	30	.10	4.34	E=1.44 E'=1.56	2.37	.150	WR187 WG	WR137 CORRAL	137FS42	
<b>A137 tapered to WR137</b>	5.4-5.9	A137TH12	1.15	1.15	35	25	.10	3.50	E=1.65 E'=1.84	2.23	.150	WR137 WG	A137 CORRAL	FLANGE BLANK 3.56 x .87	
<b>WR159</b>	5.4-5.9	159TH12	1.10	1.10	40	28	.10	3.98	2.18	2.15	.150	WG	CORRAL	NONE	
	5.9-6.5	159TH22	1.10	1.15	40	26	.10	4.49	2.26	2.45	.150	WG	CORRAL	NONE	
<b>WR187</b>	3.95-4.4	187TH42	1.10	1.10	40	28	.10	4.44	1.62	2.62	.150	WG	CORRAL	187FS32 <sup>3</sup>	
	4.4-5.0	187TH32	1.10	1.10	40	28	.10	4.41	2.23	2.34	.150	WG	CORRAL	187FS32 <sup>3</sup>	
	5.0-6.0	187TH22	1.10	1.15	40	28	.10	3.97	2.37	2.00	.128	WG	CORRAL	187FS12	
	5.1-5.9	187TH12	1.10	1.10	40	28	.10								
<b>WR229</b>	3.7-4.2	229TH12	1.10	1.10	40	28	.10	5.64	2.92	3.03	.128	WG	CORRAL	FLANGE BLANK 6.21 x 2.42	
<b>WR284</b>	2.6-3.2	284TH12	1.15	1.15	40	25	.10	6.09 <sup>7</sup>	2.62	3.55	.160	WG	CORRAL	284FS12	
	2.7-3.15	284TH22	1.10	1.10	40	28	.10								
	2.9-3.5	284TH42	1.18	1.12	40	25	.15	6.09	2.62	3.55	.160	WG	CORRAL	284FS12	
	3.0-3.4	284TH52	1.10	1.10	40	28	.15	6.09	2.62	3.55	.160	WG	CORRAL	284FS12	



Notes: <sup>3</sup> This flange is integral cast to the tee.

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10FS12 – Six 4-40 thread holes	62FS92 – Four 0.144 dia. holes	137FS32 – Ten 0.199 dia. holes
15FS52 – Two 0.0630-0.0635 dia. holes, and Six 4-40 thread holes	75FS12 – Four 0.125 dia. holes	137FS42 – Ten 10-24 thread holes
28FS12 – Six 0.116 dia. holes	90FS82 – Six 8.32 thread holes	187FS12 – Twelve 0.196 dia. holes
42FS32 – Four 0.166 dia. holes	90FS112 – Six 0.169 dia. holes	187FS32 – Twelve 0.196 dia. holes
51FS12 – Four 0.144 dia. holes	90FS122 – Six 8.32 thread holes	284FS12 – Twelve 0.261 dia. holes
62FS52 – Four 0.144 dia. holes	112FS62 – Ten 0.169 dia. holes	A284FS12 – Twelve 0.147 dia. holes
	112FS82 – Ten 0.169 dia. holes	