

Circular Polarized Horn Antenna

Circular Polarized Horn Antenna –Conical Horn Type



ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	Gain Range X(dB)	Axis Ratio (dB)	VSWR	Connector
SH-70CPHAXN	WR137	5-8	≤5%	10-20	≤0.5	≤1.5	N Female
			≤10%		≤1	≤1.6	N Female
			≤20%		≤2.5	≤1.8	N Female
			≤40%		≤3.5	≤2	N Female
			≤67%		≤4	≤2.5	N Female
SH-84CPHAXN	WR112	7-10	≤5%	10-20	≤0.5	≤1.5	N Female
			≤15%		≤2	≤1.8	N Female
SH-100CPHAXN	WR90	8-12.4	≤5% ≤15%	10-20	≤0.5 ≤2	≤1.5 ≤1.5	N Female N Female
SH-120CPHAXN	WR75	10-15	≤5% ≤15%	10-20	≤0.5 ≤2	≤1.6 ≤1.6	N Female N Female
SH-140CPHAXS	WR62	12.4-18	≤5% ≤15%	10-20	≤0.5 ≤2	≤1.6 ≤1.6	SMA Female SMA Female
SH-180CPHAXS	WR51	15-22	≤5% ≤15%	10-25	≤0.5 ≤2	≤1.6 ≤1.6	SMA Female SMA Female
SH-220CPHAXK	WR42	15-22	≤5%	10-25	≤0.5	≤1.6	2.92 Female
			≤15%		≤2	≤1.6	2.92 Female
			≤15%		≤2	≤1.6	2.92 Female
SH-260CPHAXK	WR34	22-33	≤5% ≤15%	10-25	≤0.5 ≤2	≤1.6 ≤1.6	2.92 Female 2.92 Female
			≤5% ≤15%		≤0.5 ≤2	≤1.6 ≤1.6	2.92 Female 2.92 Female
SH-320CPHAXK	WR28	26.5-40	≤5%	10-25	≤0.5	≤1.6	2.92 Female
			≤15%		≤2	≤1.6	2.92 Female
			≤15%		≤3	≤1.6	2.92 Female
SH-400CPHAX	WR22	33-50	≤5% ≤15%	10-25	≤0.5 ≤2	≤1.5 ≤1.5	FUGP400 FUGP400
			≤5% ≤15%		≤0.5 ≤2	≤1.5 ≤1.5	FUGP500 FUGP500
SH-620CPHAX	WR15	50-75	≤5% ≤15%	10-25	≤0.5 ≤2	≤1.5 ≤1.5	FUGP620 FUGP620
			≤5% ≤15%		≤0.5 ≤2	≤1.5 ≤1.5	FUGP740 FUGP740
SH-740CPHAX	WR12	60-90	≤5% ≤15%	10-25	≤0.5 ≤2	≤1.5 ≤1.5	FUGP740 FUGP740
			≤5% ≤15%		≤0.5 ≤2	≤1.6 ≤1.6	FUGP900 FUGP900
SH-900CPHAX	WR10	75-110	≤5% ≤15%	10-25	≤0.5 ≤2	≤1.6 ≤1.6	FUGP900 FUGP900
			≤5% ≤15%		≤0.5 ≤2	≤1.6 ≤1.6	FUGP900 FUGP900



Dual Circular Polarized Horn Antenna-Conical Horn Type

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	Gain Range X(dB)	Axis Ratio (dB)	VSWR	Dimensions (mm)	Connector
SH-70DCPHA15N	WR137	5-8	≤5%	≤5%	≤0.5	≤1.5	Φ145x420	N Female
	WR137	5-8	≤15%	≤15%	≤2	≤1.5	Φ145x420	N Female
	WR137	5-8	≤40%	≤40%	≤3	≤1.8	Φ145x450	N Female
SH-84DCPHA15N	WR112	7-10	≤5%	≤5%	≤0.5	≤1.5	Φ125x400	N Female
	WR112	7-10	≤15%	≤15%	≤2	≤1.5	Φ125x400	N Female
	WR112	7-10	≤40%	≤40%	≤3	≤1.8	Φ125x420	N Female
SH-100DCPHA15N	WR90	8-12.4	≤5%	≤5%	≤0.5	≤1.5	Φ95x350	N Female
	WR90	8-12.4	≤15%	≤15%	≤2	≤1.5	Φ95x350	N Female
	WR90	8-12.4	≤40%	≤40%	≤3	≤1.8	Φ95x370	N Female
SH-120DCPHA15N	WR75	10-15	≤5%	≤5%	≤0.5	≤1.5	Φ80x280	N Female
	WR75	10-15	≤15%	≤15%	≤2	≤1.5	Φ80x280	N Female
	WR75	10-15	≤40%	≤40%	≤3	≤1.8	Φ80x300	N Female
SH-140DCPHA15S	WR62	12.4-18	≤5%	≤5%	≤0.5	≤1.5	Φ68x250	SMA Female
	WR62	12.4-18	≤15%	≤15%	≤2	≤1.5	Φ68x250	SMA Female
	WR62	12.4-18	≤40%	≤40%	≤3	≤1.8	Φ68x260	SMA Female
SH-180DCPHA15S	WR51	15-22	≤5%	≤5%	≤0.5	≤1.5	Φ58x220	SMA Female
	WR51	15-22	≤15%	≤15%	≤2	≤1.5	Φ58x220	SMA Female
	WR51	15-22	≤40%	≤40%	≤3	≤1.8	Φ58x240	SMA Female
SH-220DCPHA15K	WR42	18-26	≤5%	≤5%	≤0.5	≤1.5	Φ50x180	2.92 Female
	WR42	18-26	≤15%	≤15%	≤2	≤1.5	Φ50x180	2.92 Female
	WR42	18-26	≤40%	≤40%	≤3	≤1.8	Φ50x200	2.92 Female
SH-260DCPHA15K	WR34	22-33	≤5%	≤5%	≤0.5	≤1.5	Φ38x150	2.92 Female
	WR34	22-33	≤15%	≤15%	≤2	≤1.5	Φ38x150	2.92 Female
	WR34	22-33	≤40%	≤40%	≤3	≤1.8	Φ38x180	2.92 Female
SH-320DCPHA15K	WR28	26.5-40	≤5%	≤5%	≤0.5	≤1.5	Φ32x130	2.92 Female
	WR28	26.5-40	≤15%	≤15%	≤2	≤1.5	Φ32x130	2.92 Female
	WR28	26.5-40	≤40%	≤40%	≤3	≤1.8	Φ32x150	2.92 Female
SH-400DCPHA15	WR22	33-50	≤5%	≤5%	≤0.5	≤1.5	Φ26x120	FUGP
	WR22	33-50	≤15%	≤15%	≤2	≤1.5	Φ26x120	FUGP
	WR22	33-50	≤40%	≤40%	≤3	≤1.8	Φ26x140	FUGP



Dual Circular Polarized Horn Antenna–Step Diaphragm Square Horn Type

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	Gain Range X(dB)	Axis Ratio (dB)	VSWR	Polarization Isolation (dB)	Dimensions(mm)			Connector
								W	H	L	
SH-32DCPSHA10N	WR284	2.6-4	≤10%	10-20	≤1.5	≤1.5	28	170	170	400	N Female
	WR284	2.6-4	≤20%	10-20	≤2.5	≤1.5	25	170	170	400	N Female
SH-40DCPSHA10N	WR229	3.5-5	≤10%	10-20	≤1.5	≤1.5	28	140	140	350	N Female
	WR229	3.5-5	≤20%	10-20	≤2.5	≤1.5	25	140	140	350	N Female
SH-48DCPSHA10N	WR187	4.0-6	≤10%	10-20	≤1.5	≤1.5	28	110	110	300	N Female
	WR187	4.0-6	≤20%	10-20	≤2.5	≤1.5	25	110	110	300	N Female
SH-58DCPSHA10N	WR159	4.5-7	≤10%	10-20	≤1.5	≤1.5	28	100	100	280	N Female
	WR159	4.5-7	≤20%	10-20	≤2.5	≤1.5	25	100	100	280	N Female
SH-70DCPSHA10N	WR137	5-8	≤10%	10-20	≤1.5	≤1.5	28	90	90	260	N Female
	WR137	5-8	≤20%	10-20	≤2.5	≤1.5	25	90	90	260	N Female

Circular Polarized Horn Antenna



Dual Circular Polarized Horn Antenna–Step Diaphragm Conical Horn Type

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	Gain Range X(dB)	Axis Ratio (dB)	VSWR	Polarization Isolation(dB)	Dimensions(mm)	Connector
SH-32DCPTCHA10N	WR284	2.6-4	≤10%	10-20	≤1.5	≤1.5	28	Φ170x380	N Female
	WR284	2.6-4	≤20%	10-20	≤2.5	≤1.5	25	Φ170x380	N Female
SH-40DCPTCHA10N	WR229	3.5-5	≤10%	10-20	≤1.5	≤1.5	28	Φ130x320	N Female
	WR229	3.5-5	≤20%	10-20	≤2.5	≤1.5	25	Φ130x320	N Female
SH-48DCPTCHA10N	WR187	4.0-6	≤10%	10-20	≤1.5	≤1.5	28	Φ110x280	N Female
	WR187	4.0-6	≤20%	10-20	≤2.5	≤1.5	25	Φ110x280	N Female
SH-58DCPTCHA10N	WR159	4.5-7	≤10%	10-20	≤1.5	≤1.5	28	Φ100x260	N Female
	WR159	4.5-7	≤20%	10-20	≤2.5	≤1.5	25	Φ100x260	N Female
SH-70DCPTCHA10N	WR137	5-8	≤10%	10-20	≤1.5	≤1.5	28	Φ90x240	N Female
	WR137	5-8	≤20%	10-20	≤2.5	≤1.5	25	Φ90x240	N Female



**Broadband Circular Polarized Horn
Antenna–Dual LinearPolarization Synthesized**

ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (GHz)	Gain (dB)	VSWR	Axis Ratio (dB)	Dimensions(mm)	Connector
SH-0510CPHA7N	0.5-1	7-10	≤2.5	≤3	510x510x550	N Female
SH-1020CPHA10N	1-2	10-15	≤2.5	≤3	250x250x460	N Female
SH-1040CPHA7N	1-4	7-15	≤2.5	≤5	280x280x430	N Female
SH-2040CPHA10N	2-4	10-15	≤2.0	≤3	250x250x430	N Female
SH-4080CPHA10N	4-8	10-15	≤2.0	≤3	Φ140x470	N Female
SH-80180CPHA10S	8-18	10-18	≤2.5	≤5	Φ78x165	SMA Female
SH-180400CPHA10K	18-40	10-18	≤3.0	≤5	Φ40x80	2.92 Female



**Broadband Dual Circular Polarized Horn
Antenna–Dual LinearPolarization Synthesized**

ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (GHz)	Gain (dB)	VSWR	Axis Ratio (dB)	Polarization Isolation(dB)	Dimensions(mm)	Connector
SH-1020DCPHA10N	1-2	10-15	≤2.5	≤3	15	510x510x550	N Female
SH-2040DCPHA10N	2-4	10-15	≤2.5	≤3	15	250x250x430	N Female
SH-4080DCPHA10N	4-8	10-15	≤2.5	≤3	15	Φ140x620	N Female
SH-80180DCPHA10S	8-18	10-18	≤2.5	≤3	15	Φ78x165	SMA Female
SH-180400DCPHA10K	18-40	10-18	≤3.0	≤3	15	Φ40x80	2.92 Female