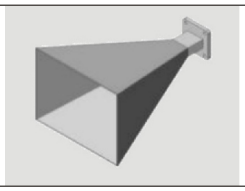
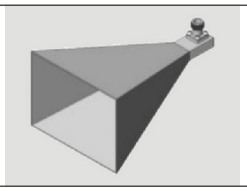
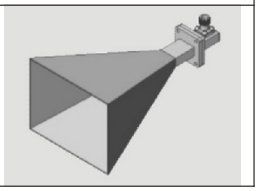
Linear Polarization Horn Antenna

Pyramid Horn Antenna

Type	With Waveguide Input Style	With Built–in Coaxial Input Style	With Coaxial Connector Style
Model No.	HAA° x B°	HAA° x B° N	HAA° x B° +N
Outline Drawing			

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range	Optional Beam Width Range(A° XB°)	VSWR	Connector	Material
SH–3HAA° XB° N	WR2300	0.32–0.49	30° – 60°	≤1.5	N Female	Al
SH–4HAA° XB° N	WR2100	0.35–0.53	30° – 60°	≤1.5	N Female	Al
SH–5HAA° XB° N	WR1800	0.41–0.62	30° – 60°	≤1.5	N Female	Al
SH–6HAA° XB° N	WR1500	0.49–0.75	30° – 60°	≤1.5	N Female	Al
SH–8HAA° XB° N	WR1150	0.64–0.98	20° – 60°	≤1.5	N Female	Al
SH–9HAA° XB° N	WR975	0.75–1.15	20° – 60°	≤1.5	N Female	Al
SH–12HAA° XB° N	WR770	0.96–1.46	20° – 60°	≤1.5	N Female	Al
SH–4HAA° XB° N	WR650	1.13–1.73	20° – 60°	≤1.5	N Female	Al
SH–18HAA° XB° N	WR510	1.45–2.20	20° – 60°	≤1.5	N Female	Al
SH–22HAA° XB° N	WR430	1.72–2.61	20° – 60°	≤1.5	N Female	Al
SH–26HAA° XB° N	WR340	2.17–3.30	20° – 60°	≤1.5	N Female	Al
SH–32HAA° XB° N	WR284	2.60–3.95	20° – 60°	≤1.5	N Female	Al
SH–40HAA° XB° N	WR229	3.22–4.90	20° – 60°	≤1.5	N Female	Al
SH–48HAA° XB° N	WR187	3.94–5.99	20° – 60°	≤1.5	N Female	Al
SH–58HAA° XB° N	WR159	4.64–7.05	20° – 60°	≤1.5	N Female	Al
SH–70HAA° XB° N	WR137	5.38–8.17	20° – 60°	≤1.5	N Female	Al
SH–84HAA° XB° N	WR112	6.57–9.99	20° – 60°	≤1.5	N Female	Al
SH–100HAA° XB° N	WR90	8.20–12.40	20° – 60°	≤1.5	N Female	Al
SH–120HAA° XB° N	WR75	9.84–15.0	20° – 60°	≤1.5	N Female	Al
SH–140HAA° XB° S	WR62	11.9–18.0	20° – 60°	≤1.5	SMA Female	Al
SH–180HAA° XB° S	WR51	14.5–22.0	20° – 60°	≤1.5	SMA Female	Cu
SH–220HAA° XB° K	WR42	17.6–26.7	20° – 60°	≤1.5	2.92 Female	Cu
SH–260HAA° XB° K	WR34	21.7–33.0	20° – 60°	≤1.5	2.92 Female	Cu
SH–320HAA° XB° K	WR28	26.5–40.0	20° – 60°	≤1.5	2.92 Female	Cu
SH–400HAA° XB°	WR22	32.9–50.1	20° – 60°	≤1.35	FUGP	Cu
SH–500HAA° XB°	WR19	39.2–59.6	20° – 60°	≤1.35	FUGP	Cu
SH–620HAA° XB°	WR15	49.8–75.8	20° – 60°	≤1.35	FUGP	Cu
SH–740HAA° XB°	WR12	60.5–91.9	20° – 60°	≤1.35	FUGP	Cu
SH–900HAA° XB°	WR10	73.8–112	20° – 60°	≤1.35	FUGP	Cu
SH–1200HAA° XB°	WR8	92.2–140	20° – 60°	/	FUGP	Cu
SH–1400HAA° XB°	WR7	113–173	20° – 60°	/	FUGP	Cu
SH–1800HAA° XB°	WR5	145–220	20° – 60°	/	FUGP	Cu
SH–2200HAA° XB°	WR4	172–261	20° – 60°	/	FUGP	Cu
SH–2600HAA° XB°	WR3	217–330	20° – 60°	/	FUGP	Cu

Conical Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (Ghz)	Working Bandwidth(%)	Optional Gain RangeX(dB)	VSWR	Circular Waveguide Inner Diameter (mm)	Material	Finish
SH-114.58CHAX	1.76-2.42	20-40	≤13	≤1.50	Φ114.58	Al	Chromate Conversion
SH-97.87CHAX	2.1-2.8	20-40	≤13	≤1.50	Φ97.87	Al	Chromate Conversion
SH-83.62CHAX	2.45-3.3	20-40	≤13	≤1.50	Φ83.62	Al	Chromate Conversion
SH-71.42CHAX	2.83-3.88	20-40	≤13	≤1.50	Φ71.42	Al	Chromate Conversion
SH-51.99CHAX	3.9-5.3	20-40	≤15	≤1.50	Φ51.99	Al	Chromate Conversion
SH-44.45CHAX	4.55-6.23	20-40	≤15	≤1.50	Φ44.45	Al	Chromate Conversion
SH-38.1CHAX	5.3-7.3	20-40	≤15	≤1.50	Φ38.1	Al	Chromate Conversion
SH-32.537CHAX	6.3-8.5	20-40	≤15	≤1.50	Φ32.537	Al	Chromate Conversion
SH-27.788CHAX	7.3-9.5	20-40	≤18	≤1.50	Φ27.788	Al	Chromate Conversion
SH-23.825CHAX	8.5-11.5	20-40	≤18	≤1.50	Φ23.825	Al	Chromate Conversion
SH-17.415CHAX	11.6-15.9	20-40	≤18	≤1.50	Φ17.415	Al	Chromate Conversion
SH-15.088CHAX	13.4-18.4	20-40	≤18	≤1.50	Φ15.088	Al	Chromate Conversion
SH-12.7CHAX	15.9-21.8	20-40	≤20	≤1.50	Φ12.7	Cu	Silver Plating
SH-9.525CHAX	21.2-29.1	20-40	≤20	≤1.50	Φ9.525	Cu	Silver Plating
SH-8.331CHAX	24.3-33.2	20-40	≤20	≤1.50	Φ8.331	Cu	Silver Plating
SH-7.137CHAX	28.3-38.8	20-40	≤22	≤1.50	Φ7.137	Cu	Silver Plating
SH-5.563CHAX	36.4-49.8	20-40	≤22	≤1.50	Φ5.563	Cu	Gold Plating
SH-4.369CHAX	46.3-63.5	20-40	≤22	≤1.50	Φ4.369	Cu	Gold Plating
SH-3.581CHAX	56.6-77.5	20-40	≤24	≤1.50	Φ3.581	Cu	Gold Plating
SH-3.175CHAX	63.5-87.2	20-40	≤24	≤1.50	Φ3.17	Cu	Gold Plating
SH-2.388CHAX	84.8-116	20-40	≤24	≤1.50	Φ2.388	Cu	Gold Plating
SH-1.91CHAX	115-140	20-40	≤24	≤1.50	Φ1.91	Cu	Gold Plating
SH-150CHAX	140-160	20-40	≤24	≤1.50	Φ1.50	Cu	Gold Plating
SH-1.00CHAX	200-300	20-40	≤24	≤1.50	Φ1.00	Cu	Gold Plating
SH-0.7CHAX	280-400	20-40	≤24	≤1.50	Φ0.7	Cu	Gold Plating

Wideband Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (GHz)	Gain (dB)	Beam Width	VSWR	Dimensions(mm) W*H*L	Connector	Material	Finish
SH-1020HA15N	1-2	10-15	35° - 55°	≤1.5	456*386*583	N Female	Al	Chromate Conversion
SH-2040HA15N	2-4	10-15	15° - 55°	≤1.5	367*267*543	N Female	Al	Chromate Conversion
SH-4080HA15N	4-8	10-15	15° - 55°	≤1.5	144*104*246	N Female	Al	Chromate Conversion
SH-80180HA20N	8-18	15-20	15° - 55°	≤1.5	133*103*247	N Female	Al	Chromate Conversion
SH-180400HA20K	18-40	15-20	15° - 55°	≤1.5	68*51*174	2.92 Female	Cu	Silver Plating

Octave Double-Ridged Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Gain (dB)	Beam Width	VSWR	Connector	Material	Finish
SH-84DRHA10N	WRD84	0.84-2.0	5-12	30° - 70°	≤2	N Female	Al	Chromate Conversion
SH-150DRHA10N	WRD150	1.5-3.6	8-12	30° - 60°	≤2	N Female	Al	Chromate Conversion
SH-200DRHA10N	WRD200	2.0-4.8	8-12	30° - 60°	≤2	N Female	Al	Chromate Conversion
SH-250DRHA10N	WRD250	2.6-7.8	8-12	30° - 60°	≤2	N Female	Al	Chromate Conversion
SH-350DRHA10N	WRD350	3.5-8.2	8-12	30° - 60°	≤2	N Female	Al	Chromate Conversion
SH-475DRHA10N	WRD475	4.75-11.0	8-12	30° - 60°	≤2	N Female	Al	Chromate Conversion
SH-500DRHA10S	WRD500	5.0-18.0	8-12	30° - 60°	≤2	SMA Female	Al	Chromate Conversion
SH-580DRHA10S	WRD580	5.8-16.0	8-12	30° - 60°	≤2	SMA Female	Al	Chromate Conversion
SH-650DRHA10S	WRD650	6.5-18.0	8-12	30° - 60°	≤2	SMA Female	Al	Chromate Conversion
SH-750DRHA10S	WRD750	7.5-18.0	8-12	30° - 60°	≤2	SMA Female	Al	Chromate Conversion
SH-700DRHA10S	WRD700	7.0-18.5	8-12	30° - 60°	≤2	SMA Female	Al	Chromate Conversion
SH-1100DRHA10S	WRD110	11.0-26.5	8-12	30° - 60°	≤2	SMA Female	Cu	Silver Plating
SH-1800DRHA10K	WRD180	18.0-40.0	8-12	30° - 60°	≤2	2.92 Female	Cu	Silver Plating

Ultra–Wideband Double–Ridged Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (GHz)	Gain (dB)	Beam Width	Dimensions(mm)			VSWR	Connector	Material	Finish
				W	H	L				
SH–0110DRHA8N	0.1–1	3–10	30° – 80°	2154	1423	2250	≤2.5	N Female	Al	Chromate Conversion
SH–0220DRHA8N	0.2–2	8–13	10° – 65°	933	780	960	≤2.5	N Female	Al	Chromate Conversion
SH–0660DRHA10N	0.6–6	4–15	10° – 80°	306	221	415	≤2.5	N Female	Al	Chromate Conversion
SH–0840DRHA7N	0.8–4	6–14	35° – 65°	225	155	290	≤2.0	N Female	Al	Chromate Conversion
SH–1060DRHA10N	1–6	6–13	20° – 90°	164	114	158	≤2.5	N Female	Al	Chromate Conversion
SH–10180DRHA105	1–18	7–13	30° – 80°	160	284	245	≤2.5	SMA Female	Al	Chromate Conversion
SH–10200DRA10S	1–20	7–15	11° – 80°	163	241	243	≤2.0	SMA Female	Al	Chromate Conversion
SH–20180DRHA17S	2–18	8–17	20° – 50°	179	149	200	≤2.5	SMA Female	Al	Chromate Conversion
SH–60180DRHA10S	6–18	10–14	30° – 55°	63	43	140	≤2.5	SMA Female	Al	Chromate Conversion
SH–80400DRHA15K	8–40	7–13	10° – 30°	28	23	105	≤3.0	2.92 Female	Al	Chromate Conversion
SH–180400DRHA16K	18–40	15–20	10° – 20°	50	38	132	≤2.5	2.92 Female	Al	Chromate Conversion

Mini Ultra–Wideband Double–Ridged Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (GHz)	Gain (dB)	Beam Width	Dimensions(mm)			VSWR	Connector	Material	Finish
				W	H	L				
SH–20180DRHA8S	2–18	5–11	40° – 80°	119	119	86	≤2.5	SMA Female	Al	Chromate Conversion
SH–20245DRHA8S	2–24.5	5–13	40° – 80°	119	119	86	≤2.5	SMA Female	Al	Chromate Conversion
SH–180400DRHA8K	18–40	5–13	40° – 80°	90	60	50	≤2.5	2.92 Female	Al	Chromate Conversion

Linear Polarization Horn Antenna

Dual Polarization Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	Gain X(dB)	Polarization Isolation (dB)	VSWR	Connector	Material
SH-84DPHAXN	WR112	7-10	≤5%	10/15	≥20	≤1.5	N Female	Al
			≤40%		≥30			
SH-100DPHAXN	WR90	8-12.4	≤5%	10/15	≥20	≤1.5	N Female	Al
			≤40%		≥30			
SH-120DPHAXN	WR75	10-15	≤5%	10/15	≥20	≤1.6	N Female	Al
			≤40%		≥30			
SH-140DPHAXS	WR62	12-18	≤5%	10/15	≥20	≤1.6	SMA Female	Al
			≤40%		≥30			
SH-180DPHAXS	WR51	15-22	≤5%	10/15/20	≥20	≤1.6	SMA Female	Cu
			≤40%		≥30			
SH-220DPHAXK	WR42	17.6-26.7	≤5%	10/15/20	≥20	≤1.6	2.92 Female	Cu
			≤40%		≥30			
SH-260DPHAXK	WR34	22-33	≤5%	10/15/20	≥20	≤1.6	2.92 Female	Cu
			≤40%		≥30			
SH-320DPHAXK	WR28	26.5-40	≤5%	10/15/20	≥20	≤1.6	2.92 Female	Cu
			≤40%		≥30			
SH-400DPHAX	WR22	33-50	≤5%	10/15/20	≥20	≤1.5	WR22	Cu
			≤40%		≥30			
SH-500DPHAX	WR19	40-60	≤5%	10/15/20	≥20	≤1.5	WR19	Cu
			≤40%		≥30			
SH-620DPHAX	WR15	50-75	≤5%	10/15/20	≥20	≤1.5	WR15	Cu
			≤40%		≥30			
SH-740DPHAX	WR12	60-90	≤5%	10/15/20	≥20	≤1.5	WR12	Cu
			≤40%		≥30			
SH-900DPHAX	WR10	75-110	≤5%	10/15/20	≥20	≤1.6	WR10	Cu
			≤40%		≥30			

Linear Polarization Horn Antenna

Ultra–Wideband Dual–Polarization Four–Ridged Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	Working Bandwidth	Gain(dB)	VSWR	Polarization Isolation(dB)	Dimensions(mm)			Connector
					W	H	L	
SH–0840DPHA6N	0.8–4	6–10	≤2.5	≥20	250	250	400	N Female
SH–1040DPHAXN	1–4	6–10	≤2.5	≥20	280	280	420	N Female
SH–20180DPHA6S	2–18	6–16	≤2.5	≥20	120	120	169	SMA Female
SH–180400DPHA16K	18–40	14–17	≤2.5	≥20	Φ63x146			2.92 Female
SH–260400DPHA18K	26–40	18–20	≤2.5	≥20	Φ46.5x135			2.92 Female

Open Boundary Dual–Polarization Four–Ridged Horn Antenna

ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range	Gain	VSWR	Isolation(dB)	Dimensions(mm)			Connector
					W	H	L	
SH–0460DPOBHA10S	0.4–6	4–13	≤3.0	≥20	500	500	550	SMA Female
SH–0880DPOBHA8S	0.8–8	2–10	≤3.0	≥20	350	350	400	SMA Female
SH–30180DPOBHA10S	3–18	6–14	≤3.0	≥20	175	175	200	SMA Female