

# WAVEGUIDE NOMENCLATURE

EXAMPLE: WR51-Rigid Straight Section, 8.5 inch length with cover flange tapped holes on one end and cover flange thru-holes on the other ~ OFHC (Copper), Silver Plated

## HA51SS-8.5-CVT-CVS-C-S



P/N	WG SZ	BAND	FREQ. RANGE (GHZ)
HA3	WR3	J	220.00 - 325.00
HA5	WR5	G	140.00 - 220.00
HA6	WR6	D	110.00 - 170.00
HA8	WR8	F	90.00 - 140.00
HA10	WR10	W	75.00 - 110.00
HA12	WR12	E	60.00 - 90.00
HA15	WR15	V	50.00 - 75.00
HA19	WR19	U	40.00 - 60.00
HA22	WR22	Q	33.00 - 50.00
HA28	WR28	Ka	26.50 - 40.00
HA34	WR24	-	22.00 - 33.00
HA42	WR42	K	18.00 - 26.50
HA51	WR51	N	15.00 - 22.00
HA62	WR62	Ku	12.40 - 18.00
HA75	WR75	M	10.00 - 15.00
HA90	WR90	X	8.20 - 12.40
HA112	WR112	H	7.05 - 10.00
HA137	WR137	C	5.85 - 8.20
HA159	WR159	-	4.90 - 7.05
HA187	WR187	G	3.95 - 5.85
HA229	WR229	U	3.30 - 4.90
HA284	WR284	S	2.60 - 3.95
HA340	WR340	-	2.20 - 3.30
HA430	WR430	LS	1.70 - 2.60
HA510	WR510	-	1.45 - 2.20
HA650	WR650	L	1.12 - 1.70

**EXAMPLE:**  
6 = 6 Inches  
12.5 = 12.5 Inches

**TUBING TYPE**

- SS = Rigid Straight Section
- TWR = Rigid Twist Right Hand (90°)
- TWL = Rigid Twist Left Hand (90°)
- E = E-Bend + Degree  
(Ex: E30=30°; E45=45°; E60=60°; E90=90°)
- H = H-Bend + Degree  
(Ex: H30=30°; H45=45°; H60=60°; H90=90°)
- CG = Crossguide Directional Coupler
- BW = Broadwall Directional Coupler
- FNT = Flexible Non-Twistable
- SF = Seamless Flexible

**FLANGE TYPE\***

- CV = Cover Circular
- CVS = Cover Flat Thru-Hole
- CVT = Cover Flat Tapped Hole
- G = Cover Groove Thru-Hole
- GT = Cover Groove Tapped Hole
- CKM = Choke Flange Thru Hole (Modified)
- CKT = Choke Tapped Hole
- CKS = Choke Thru-Hole
- CF = CPR Flat
- CG = CPR Groove
- CC = CMR Thru-Hole
- CCT = CMR Alt. Tapped Hole
- R = Circular (Millimeter Round)

\*See HASCO Flange Specifications for more information.

**PLATING**

- B = BLACK PAINT
- G = GOLD
- N = NICKEL
- S = SILVER
- X = NON-PLATED

**MATERIAL**

- A = ALUMINUM
- B = BRASS
- C = OFHC (Copper)
- CS = COIN SILVER

**FOR E-BEND AND H-BEND**

The length is combined with the flange. Example:

**HA34E30-1CVT-2CVS-B-N**

WR34 - 30 degree E-Bend with 1 inch long section with cover flange tapped holes one end and 2 inch long section with cover flange thru-holes on the other end ~ Brass, Nickel Plated

NOTE: All rigid waveguide assemblies are "THERMAL-VAC" compatible. Contact HASCO for special requirements not defined above.