

COMPARISON OF HORNS

Freq. (GHz)	λ (ins)	HPBW (")	Linear Taper Horn				Compact Horn			
			Ap. OD (ins)	Ap/ λ	$\Delta\theta$ (")	$\Delta\theta$ /BW	Ap. OD (ins)	Ap/ λ	$\Delta\theta$ (")	$\Delta\theta$ /BW
26.5	0.445	28	4.370	11.84	117	4.2	2.607	7.07	70	2.5
32.0	0.369	23				5.1				3.0
40.0	0.295	18				6.5				3.9

Ap.OD = Aperture outside diameter

$\Delta\theta$ = Beam separation

Linear Taper: OD = 4.370 ins.; Length = 6.45 ins.

Compact horn: OD = 2.607 ins.; Length = 4.95 ins.