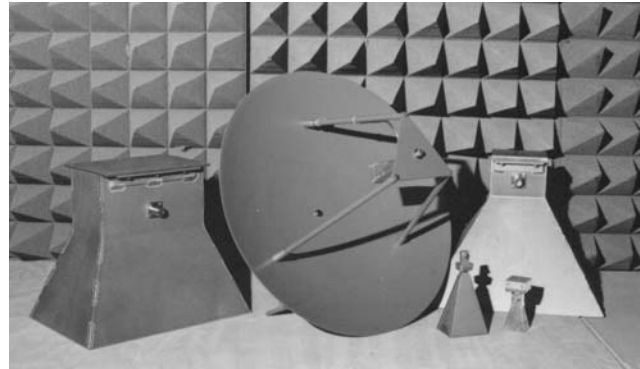


### HAK - 118/A - 1 GHz - 18 GHz

Horn Antenna Kit includes:

- a) OWH-12/A, horn antenna, 1.0 - 2.0 GHz
- b) OWH - 24/B, horn antenna, 2.0 - 4.0 GHz
- c) MWH - 48/B, horn antenna, 4.0 - 8.0 GHz
- d) MWH - 812/A, horn antenna, 7.3 - 12.0 GHz
- e) MWH - 1218/B, horn antenna, 12.0 - 18.0 GHz
- f) HRA-118/A, Reflector
- g) HMA - 118/A, Mounting Adapter
- h) Carrying Case



**HAK - 118/A**

### HAK - 140/A - 1 GHz - 40 GHz

Horn Antenna Kit includes:

- a) HAK - 118/A, horn Antenna Kit, 1.0 - 18.0 GHz
- b) MWH - 1826/B, horn antenna, 18.0 - 26.0 GHz
- c) MWH - 2640/B, horn antenna, 26.0 - 40.0 GHz

Typical specifications for the individually calibrated horns included in the HAK - 118/A kit are listed below.

### SPECIFICATIONS

#### a) HORNS INCLUDED IN HAK-118/A

	FREQUENCY	GAIN	AFE	SIZE (INCHES)		
	(GHZ)	(DB)	(DB M <sup>-1</sup> )	HEIGHT	WIDTH	DEPTH
DRG-1020/B	1.0 - 2.0	16.8	21.3 - 22.0	9.4	13.5	19.3
MWH-24/B	2.0 - 4.0	17.5	20.6 - 21.0	10.3	13.5	19.3
MWH-48/B	4.0 - 8.0	5.3 - 9.5	37.0	1.6	2.0	3.2
MWH-812/A	7.3 - 12.0	7.8 - 12.5	39.8	1.3	1.3	3.2
MWH-1218/B	12.0 - 18.0	7.0 - 10.0	44.8 - 45.4	0.7	0.7	3.2

#### b) HAK-118/A, ANTENNAS WITH 18 INCH DIAMETER REFLECTOR, HRA - 118/A

	FREQUENCY (GHZ)	GAIN (DB)	AFE (DB M <sup>-1</sup> )	BEAMWIDTH		SIZE (INCHES)		
				VERTICAL POLARITY	HORIZONTAL POLARITY	HEIGHT	WIDTH	DEPTH
MWH-48/B	4.0 - 8.0	21.0 - 26.0	20 - 22	10° - 8°	13° - 9°	19.25*	18.63*	13.25*
MWH-812/A	7.3 - 12.0	28.5 - 32.0	19 - 20	6.5° - 3.5°	7° - 4°			
MWH-1218/B	12.0 - 18.0	33.5 - 37.0	18.5	4° - 3°	4° - 3°			

\* Dimensions given are for the horn mounted on the reflector

#### c) HAK-140/A, HORNS FROM 18 TO 40 GHz:

	FREQUENCY	GAIN	AFE	SIZE (INCHES)			
	(GHZ)	(DB)	(DB M <sup>-1</sup> )	HEIGHT	WIDTH	DEPTH	LENGTH**
MWH - 1826/B	18.0 - 26.0	23.3 - 24.7	32.0 - 33.6	3.2	4.1	8.9	11.9
MWH - 2640/B	26.0 - 40.0	23.3 - 24.7	35.4 - 37.1	2.3	2.9	6.0	9.0

\*\* Overall length with the mounting adapter

**ACCESSORIES**

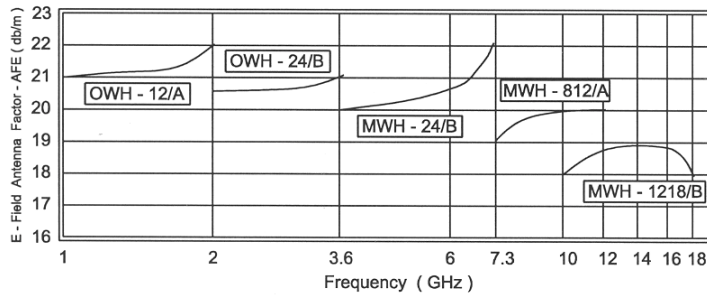
- HRA - 118/A**     18" solid parabolic reflector with 7 inch focal length, mounting spars, and back plate with adaptability to HMA - 118/A Mounting Adapter.
- HRA - 1840/A**    12" inch solid parabolic reflector with 4.5 inch focal length, mounting spars, and back plate with adaptability to HMA - 118/A Mounting Adapter.
- HMA - 118/A**     Horn Mounting Adapter for a Tripod 1/4 - 20 mounting bolt, mounts both the reflectors and the individual antennas to a tripod.

**Carrying Case**    Sturdy case with foam cutouts for ease of transportation and protection.

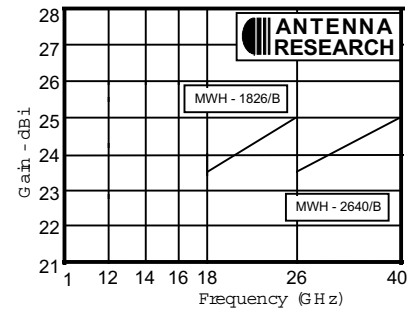
**Options**

- 1) 2' flexible waveguide with UG - 595 flanges
- 2) 1.5' flexible waveguide with UG - 599 flanges
- 3) Tripod Pan/Tilt Head
- 4) 10', 0.141 semi-rigid coaxial cable

Typical Antenna Factor curves for horns **OWH-12/A** and **OWH24/B**, and horns **MWH-48/A**, **MWH-812/A** and **MWH - 1218/A**, with the parabolic reflector are shown in Fig.1. Fig.2 shows typical gain curves for additional two horns included in **HAK-140/A**.



**Fig.1**



**Fig.2**

**Mounting Plate for MWH-1826/B and MWH-2640/B**

