



3dB GAIN 5/8 WAVE UHF MOBILE ANTENNA

MODEL

UH-401A
 UH-401B
 UH-401C
 UH-401D
 UH-401E

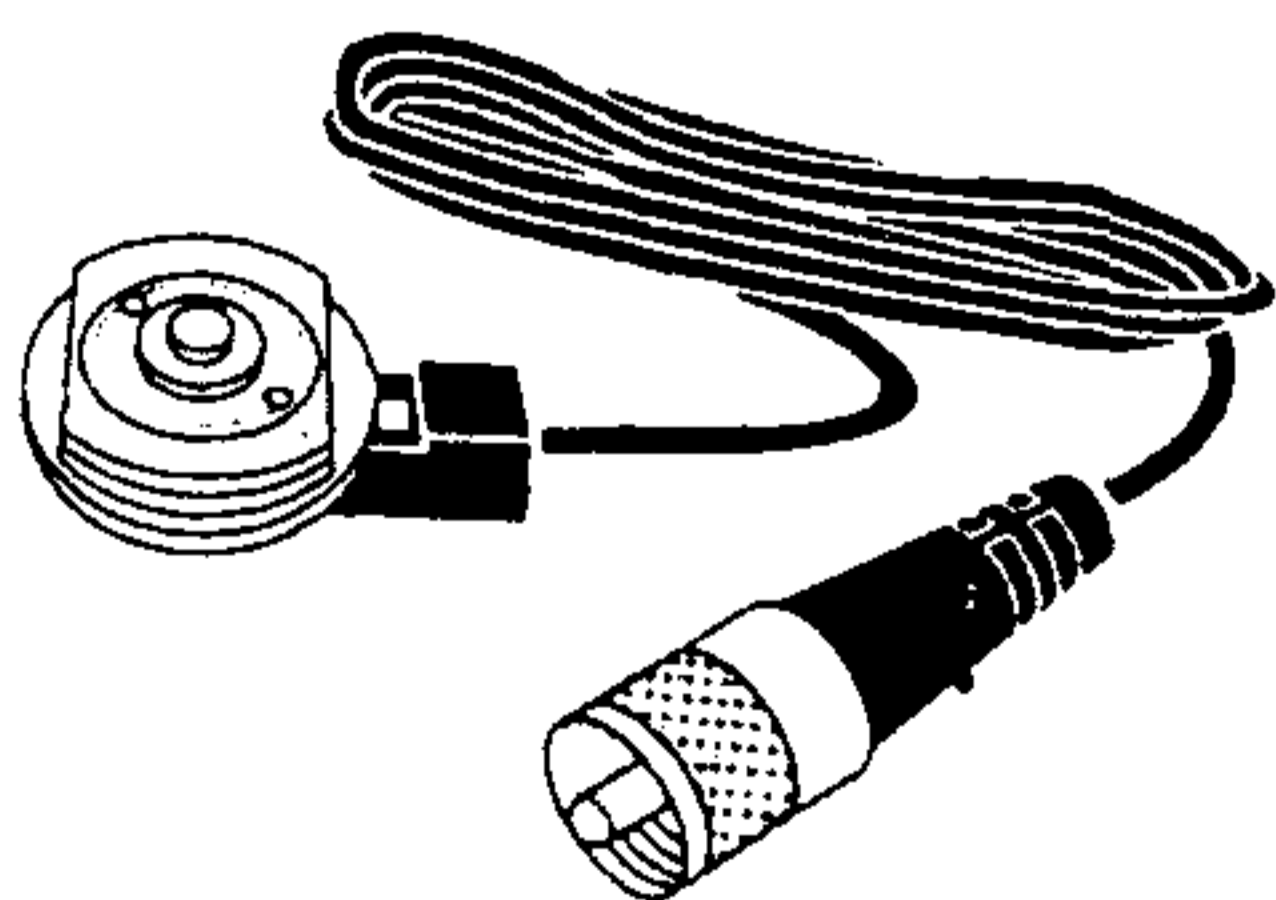
FREQUENCY RANGE

410 – 430 MHz
 430 – 450 MHz
 450 – 470 MHz
 470 – 490 MHz
 490 – 512 MHz

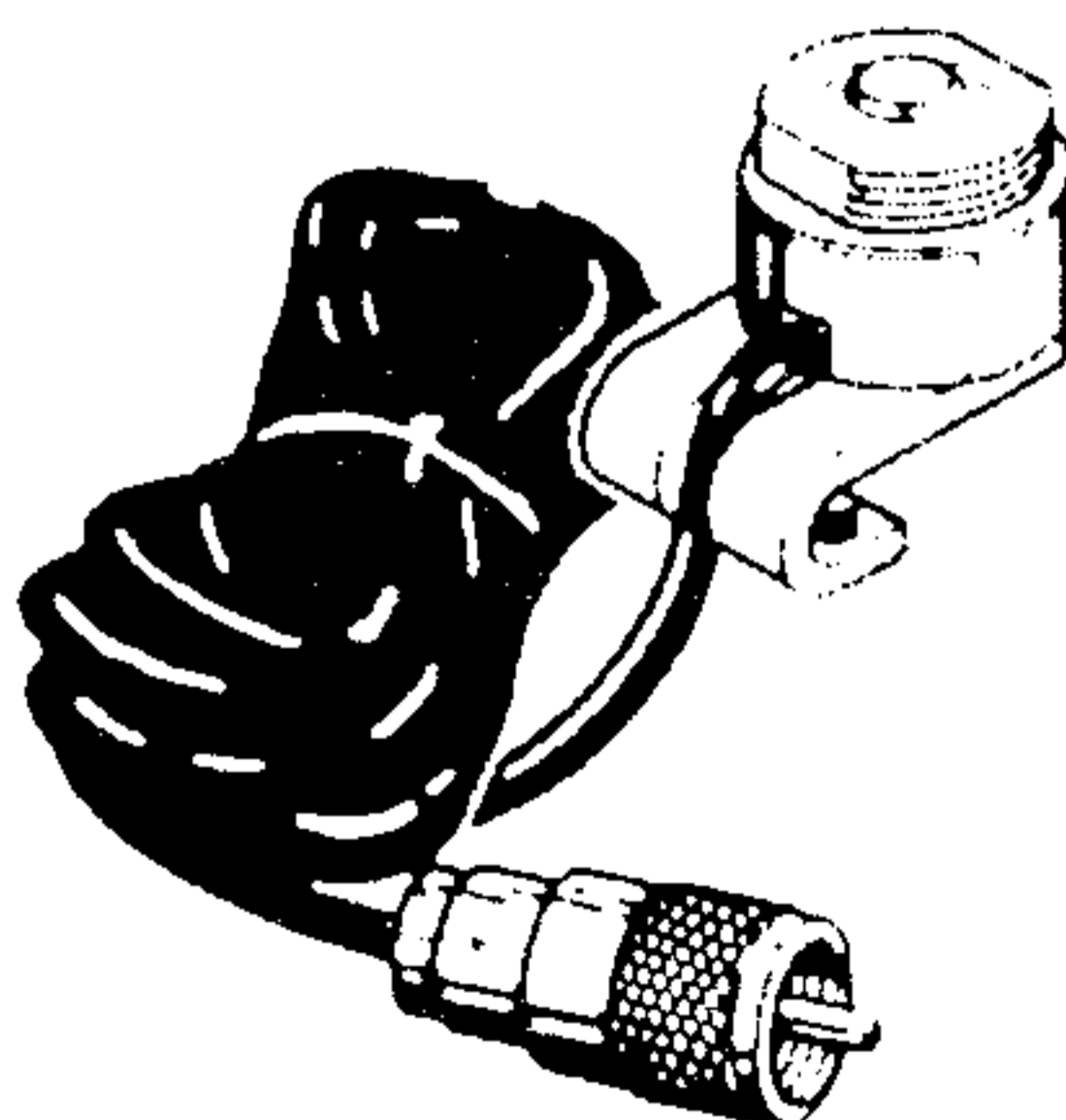
ASSEMBLE THE ANTENNA PER THE DIAGRAM ATTACHED. TO OBTAIN THE LOWEST S.W.R. (STANDING WAVE RATIO), THE ANTENNA MUST BE CUT TO THE SPECIFIC FREQUENCY OF OPERATION (SEE CUTTING CHART) . THE STAINLESS MATERIAL USED IN THE ANTENNA IS VERY STRONG AND IS NOT EASILY CUT. WE SUGGEST " SCORING " THE STAINLESS WHIP TO A 75% DEPTH THEN USING TWO PLIER TO SNAP OFF THE UNUSED PORTION. USE CARE TO AVOID AN ACCIDENT. FILE DOWN ANY " BURRS " ON THE CUT OFF PORTION. THE COIL ASSEMBLY IS FACTORY TUNED AND SEALED, NO ADJUSTMENT TO THE COIL IS NECESSARY.

NOTE: ALWAYS USE PROTECTIVE EYEGLASSES WHEN CUTTING OR FILING METAL RODS.

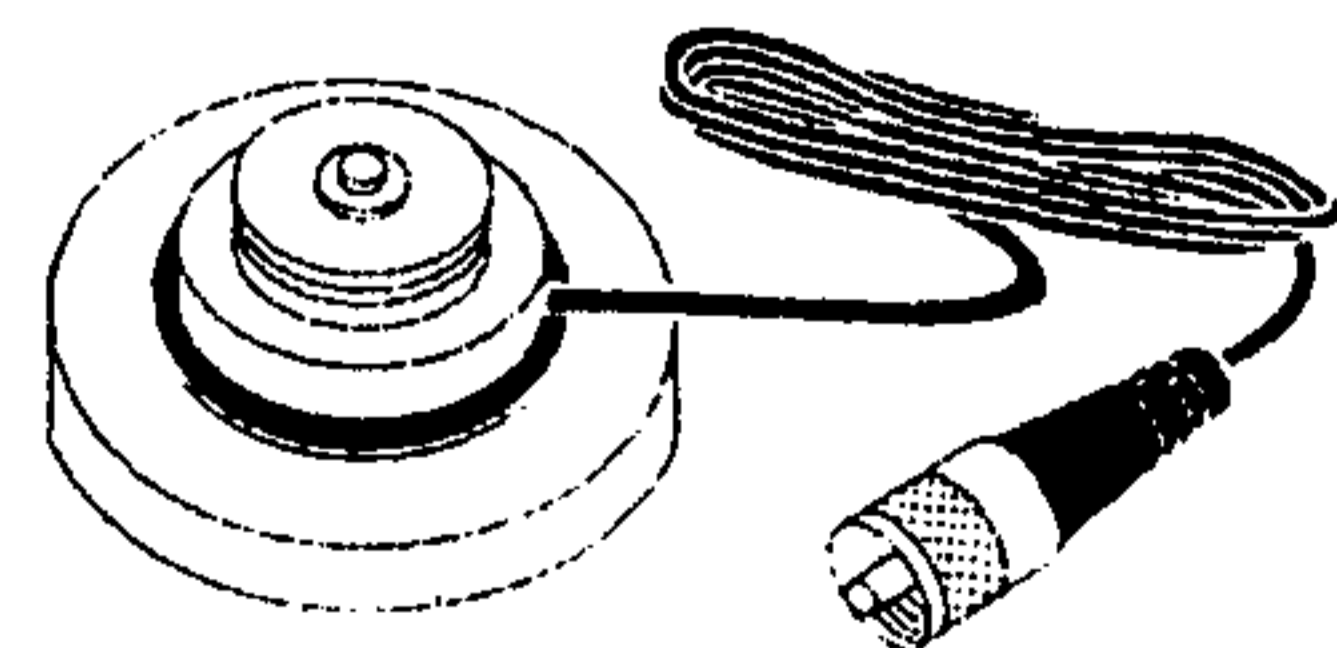
THE UH-401 SERIES REQUIRE A " NMO " TYPE OF MOUNT. WE OFFERS THREE DIFFERENT NMO MOUNTS AS BELOW:



3/4" HOLE MOUNT

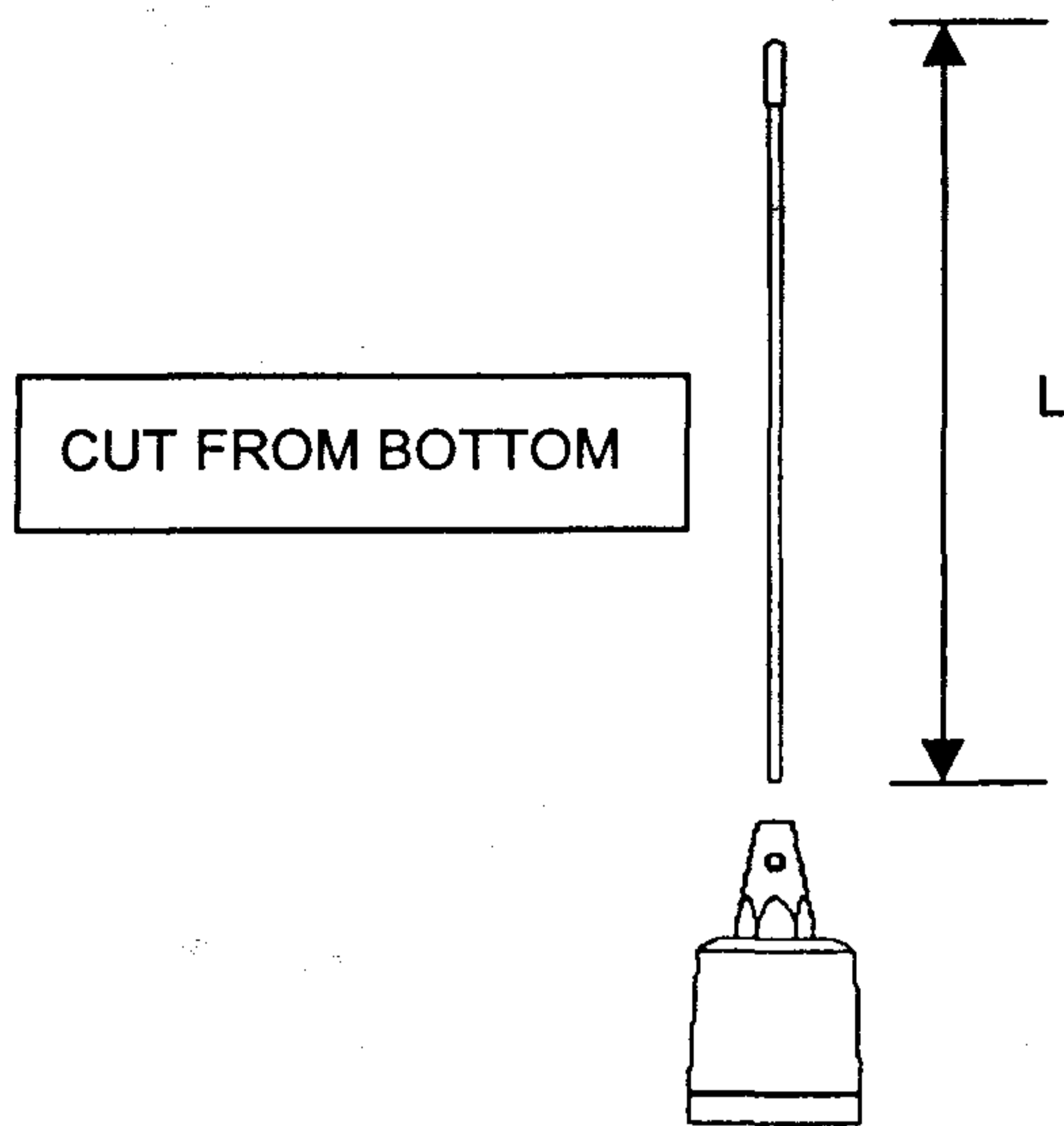


TRUNK LIP MOUNT



MAGNET MOUNT

UH-401 SERIES CUTTING CHART



INSTALLATION:

FOR GROUND PLANE DEPENDENT ANTENNA THE CENTER OF THE VEHICULAR ROOF IS CONSIDERED THE BEST LOCATION FOR YOUR INSTALLATION. SATISFACTORY RESULTS MAY BE OBTAINED ON OTHER LOCATION SUCH AS THE FENDER OR TRUNK DECK. WHEN MOUNTING ANY ANTENNA, ESPECIALLY A LOW BAND ANTENNA, CARE SHOULD BE TAKEN WHEN CHOOSING THE MOUNTING LOCATION SO AS TO PROVIDE AN ADEQUATE GROUND PLANE AND FREE SPACE FOR THE RADIATOR. IF THE RADIATOR IS MOUNTED TOO CLOSE TO THE METAL SIDE OF THE VEHICLE, A LOW V.S.W.R. MAY NOT BE ACHIEVED. USE THE TABLE BELOW AS A GUIDE:

OPERATION BAND	GROUND PLANE _____
LOW BAND	AS LARGE AS POSSIBLE
VHF	89 cm ²
UHF	33 cm ²
800/900	18 cm ²

UH-401A	
FREQUENCY	Length
410MHz	353mm
415 MHz	341mm
420 MHz	323mm
425 MHz	311mm
430 MHz	311mm
UH-401B	
FREQUENCY	Length
430MHz	312mm
435 MHz	309mm
440 MHz	295mm
445 MHz	285mm
450 MHz	285mm
UH-401C	
FREQUENCY	Length
450 MHz	282mm
455 MHz	282mm
460 MHz	273mm
465 MHz	267mm
470 MHz	259mm
UH-401D	
FREQUENCY	Length
470 MHz	271mm
475 MHz	271mm
480 MHz	271mm
485 MHz	271mm
490 MHz	250mm
UH-401E	
FREQUENCY	Length
490 MHz	278mm
495 MHz	266mm
500 MHz	266mm
505 MHz	266mm
510 MHz	264mm
512 MHz	259mm