

FM BAND STACKED DIPOLE ANTENNA 794DS



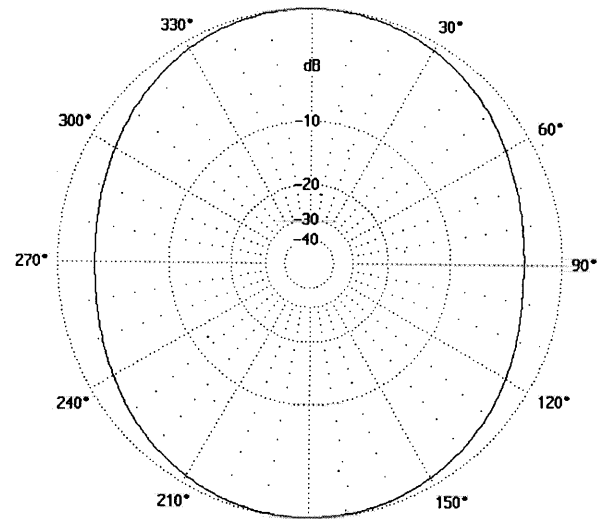
Creative Design Corp.

1. GENERAL

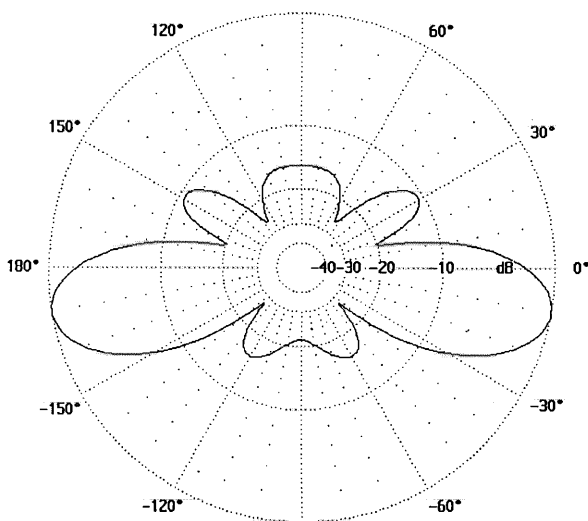
This 794DS is a high gain antenna particularly designed for FM band to derive an Elliptical radiation pattern in its horizontal plane. The structure of this antenna is made out of 4 U-type antennas stacked in a single mast. The maximum radiation angle in the vertical plane is 0° for the standard model however, is structured to apply the radiation to be limited service area, thence there is a special model available equipped a tilt function that enable to tilt vertical plane in order to decrease to radiate an unnecessary sky radiation of RF energy. Main materials structured of this antenna are consisted of a high strength, light weight quality aluminum with corrosion resistant. The mast-clamp type hardware makes it possible to proceed an easy installation of this antenna. The specification characteristics and radiation pattern of this 794DS are specified below.

2. SPECIFICATION

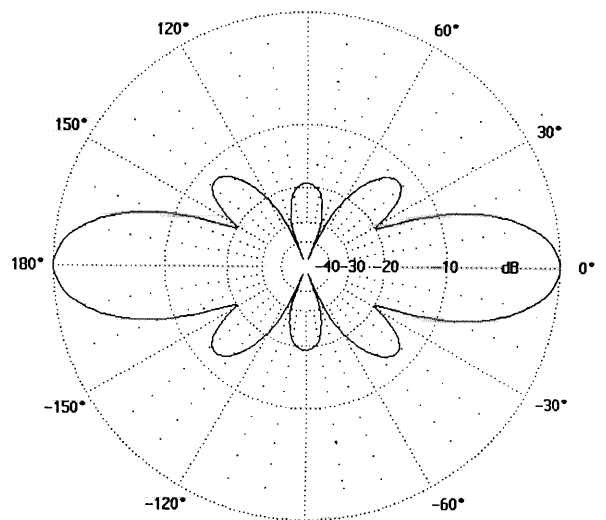
Model Number	Stacked U-Type Dipole Antenna, 794DS (794DSP)
Frequency	Frequency is available upon request within 76~108MHz
Polarization	Horizontal
Number of Element	4
Gain	7dBi (6.9dBi/Example: -10° Tilt)
Radiation Pattern	Elliptical, Refer To Parttern
Impedance	50Ω
VSWR	Less Than 1.5 : 1
Input Connector	Type NJ
Power Capability, CW	100W, 500W, 1kW, 3kW, 5kW
Overall Length	Approx. 6.3m/90MHz
Installation	φ 76~102mm, Mast Installation Type
Wind Survival Rate	45m/s
Weight	Approx. 20kg
Environmental Temperature	-20 °C~+50 °C



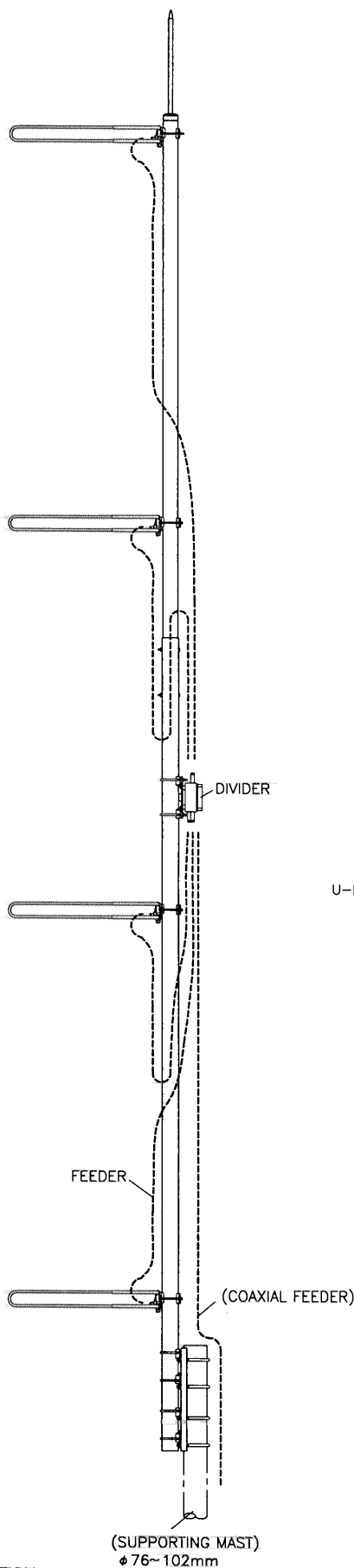
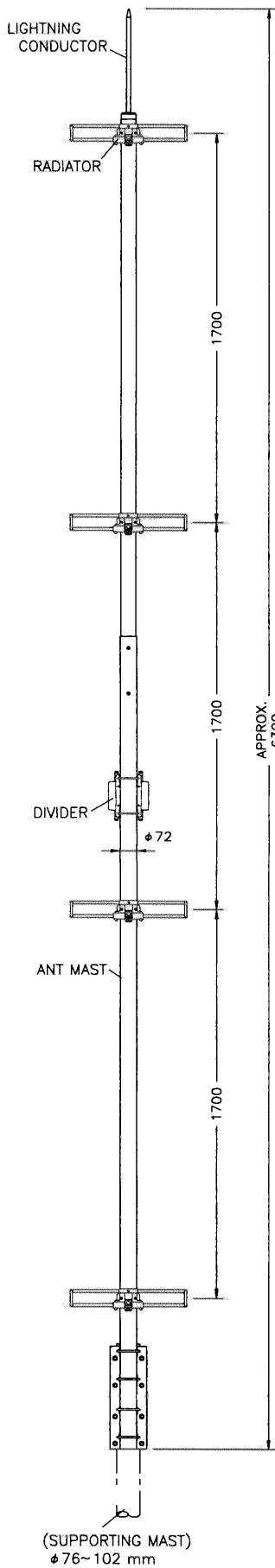
Radiation Pattern E-Plane, 794DS



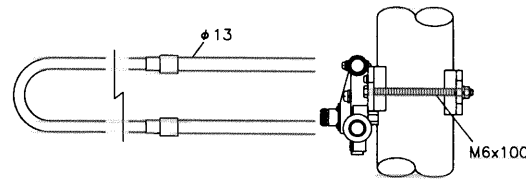
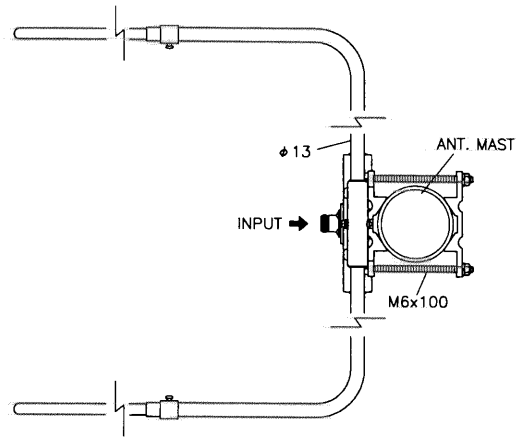
Radiation Pattern H-Plane, 794DSP
Example: -10° Tilt



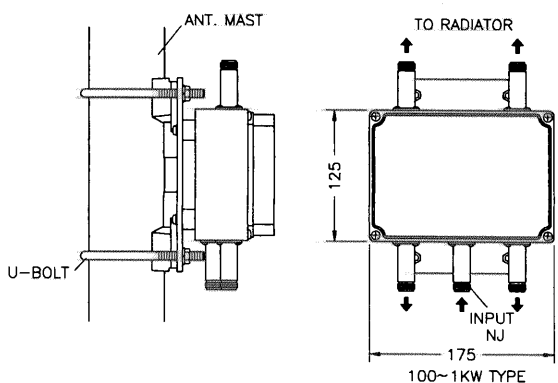
Radiation Pattern H-Plane, 794DS



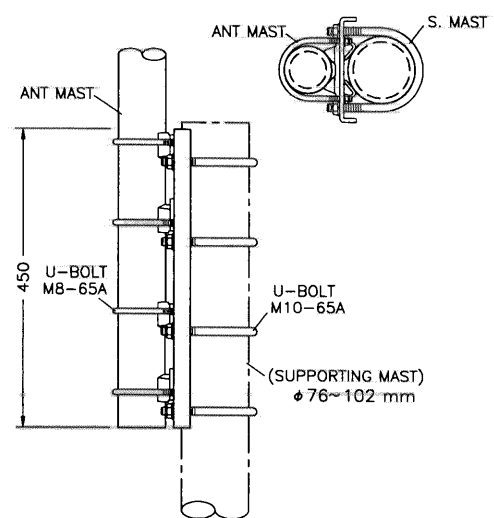
ELEVATION



RADIATOR ELEMENT
1/5



4-DIVIDER
1/5



ANTENNA TO MAST
1/8

- NOTES: 1. DIMENSIONS ARE IN MILLIMETRES
 2. MATERIALS: ALUMINUM
 3. PARENTHEetical ITEMS ARE CUSTOMER FURNISHED
 4. THE DIMENSION INDICATED IS FOR 90MHz

AC-FM-A3 9404

DESCRIPTION DWA.038D.	OUTLINE	DATE 03-1
TITLE FM BAND STACKED DIPOLE ANTENNA 794DS		
CREATIVE DESIGN CORP.		KAWASAKI
SCALE 1/20	DWN,BY N.T	APPROVED A.K
		CHECKED Y.G

CMN-0210