

REV	REF.	DESCRIPTION	INPT BY	APP	DATE
1		Prototype Release	CAC	SLH	10/11/99
A	1828	Release	CDC		11/30/99

# ***ITRONIX***

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APPROVALS		Unless otherwise specified dimensions are in inches. NOT TO SCALE DRAWING		ITRONIX CORPORATION S 801 STEVENS AVE. P.O. BOX 0179 SPOKANE, WA 99210-0179
ORIG. D. McLean	DATE 10/8/99			TITLE:  VEHICLE ANTENNA, MOBITEX, UNITY GAIN, Z563, GROUND PLANE DEPENDENT
CHK.	DATE			
ENG.	DATE			
MFG.	DATE			Drawing Number 46-0060-000
F.S.	DATE			PAGE 1 OF 4

## CHANGE RECORD

[illegible]

- 1.0 **DESCRIPTION:** Unity gain, ground plane vehicle antenna. The factory tuned frequency is 898 MHz. This antenna is for use in a Mobitex network.
- 2.0 **APPLICABLE DOCUMENTS AND REFERENCES:**
- 2.1 ITRONIX DOCUMENTS:  
Procedure, Reliability Design Guidelines....920-0806-001
- 2.2 MANUFACTURER'S SPECIFICATION: MaxRad Z563
- 3.0 **MECHANICAL REQUIREMENTS:**
- 3.1 Dimensions (For Reference Only): See Figure 1.
- 3.2 Radiator Material: Stainless steel with a bright finish.
- 3.3 Antenna Length (For Reference Only): 3 inches
- 3.4 Rod/Coil Type: Straight
- 3.5 Connectors: 1-<sup>1</sup>/<sub>8</sub>"-18 mounting threads mate with <sup>3</sup>/<sub>4</sub>" mounts (with a rubber gasket)
- 3.6 Mounting (For Reference Only): <sup>3</sup>/<sub>4</sub>" Magnetic Mount (46-0065-xxx) **OR** Thru-hole Mount (46-0073-xxx).
- 4.0 **ELECTRICAL REQUIREMENTS:**
- 4.1 VSWR at Resonant Point: <1.5:1
- 4.2 Nominal Impedance: 50Ω
- 4.3 Antenna Type: <sup>1</sup>/<sub>4</sub> wave
- 4.4 Operating Frequency Range: 896-941
- 4.5 Factory Tuned Frequency: 898 MHz
- 4.6 Intended for Use in Network Type: Mobitex
- 4.7 Power Dissipation: 100 W
- 5.0 **ENVIRONMENTAL REQUIREMENTS:**
- 5.1 Temperature: -40°C to +85°C
- 5.2 Humidity: 0% to 100% Relative Humidity
- 6.0 **SAFETY REQUIREMENTS:** N/A
- 7.0 **MARKING REQUIREMENTS:**  
The bulk shipping container must bear the Manufacturer's name and part number.
- 8.0 **PACKAGING REQUIREMENTS:**  
Packaging of components shall be such that no damage will occur to the component during shipment. Refer to EIA STD RS-383-A.
- 9.0 **ACCEPTABILITY REQUIREMENTS:**  
These units must meet inspection requirements. The antenna bag should contain an antenna rod, a nut, a rubber gasket (MaxRad part number MSGSK), a rain cap and assembly instructions.

10.0 **MANUFACTURER AND MANUFACTURER’S PART NUMBER:**  
See Section 9.0 for a list of parts included.

Part Number	Manufacturer	Manufacturer’s Part Number
46-0060-001	MaxRad	Z563

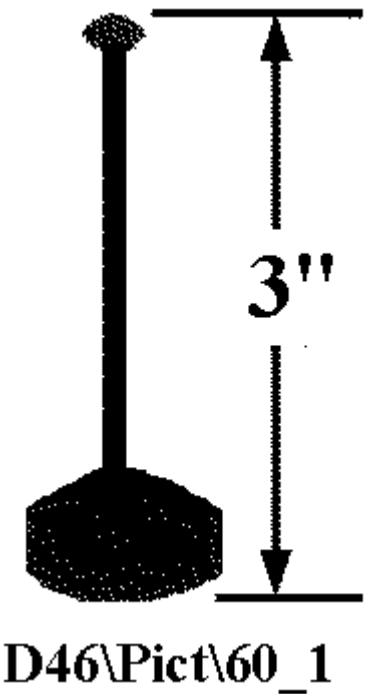


Figure 1: 46-0060-001 Antenna dimensions (For Reference Only)