G-TEL Enterprises, Inc. payphone.com	CARBON REPLACEMENT ELECTRET TRANSMITTER EMS-94	G-TEL ENTERPRISES, INC.
		16840 Clay Rd #118 Houston TX 77084
SPEC. NO. MHS-C-152		TEL (281)550-5592

1 SCOPE

THIS SPECIFICATION COVERS AN ELECTRET CONDENSER MICROPHONE TYPE TRANSMITTER FOR TELEPHONE HANDSET.

2 DESIGN AND CONSTRUCTION

THE TRANSMITTER SHALL BE OF THE DESIGN, CONSTRUCTION AND PHYSICAL DIMENSIONS AS SHOWN ON FIG. 1.

3 ELECTRICAL AND ACOUSTICAL CHARACTERISTICS

NO.	TEST ITEMS	REQUIREMENTS	TEST CONDISTIONS
3.1	Response	1) Curve : Fig. 2 2) 1KHz : -40 +/- 3dB	1. 2500 Type Handset 2. Artificial Voice Position: AEN (1EEE 269) 3. Arttificial Voice Sound Pressure Calibration : 1pa (1EEE 269) 4. Supply Voltage : 6 V. 5. 0 dB = 1V./ 1 pa 6. Frequency Response Measuring Circuit : Fig. 3.
3.2	Output Impedence	1KHz : 1500 +/- 300 ohm	
3.3	Operation Voltage	1.5V to 10 V	
3.4	Drain Current	Max. 0.3mA (Supply Volt : 6 V.)	
3.5	Signal to Noise Ratio	Above 60 dB	Weighting Network : A 1KHz. 1 Bar

4 ENVIRONMENTAL TEST

4.1 GENERAL

AFTER ANY FOLLOWING TEST, THE RESPONSE AT 1KHz SHALL NOT VARY MORE THAN 4dB FROM THE INITIAL VALUE.

4.2 TEST

NO.	TEST ITEM	TEST CONDITIONS
4.2.1.	Humidity and High Temperature	1) Temperature : 60 +/- 3C 2) R. Humidity : 90 - 95 % RH 3) Duration of Exposure : 72 Hours 4) Duration of Recovery : 6 Hours

4.2.2.	Low Temperature	1) Temperature 2) Duration of Exposure 3) Duration of Recovery	: -20 +/- 3C : 72 Hours : 6 Hours
4.2.3.	Shock, Temperature	1) Low Temperature 2) High Temperature 3) Number of Cycle 4) Duration of Exposure 5) Duration of Transfer Time 6) Duration of Recovery	: -20 +/- 3C : 60 +/- 3C : 5 : 3 Hours at Each Temp. : Less than 5 Min. : 6 Hours
4.2.4.	Shock, Drop	1) Mounting 2) Direction 3) Height 4) Floor 5) Times of Drop	: 2500 Type Handset : Random : 1 Meter : Concrete floor Faced with 5 mm Thick Hard Wood Board : 10 Times
4.2.5.	Vibration	1) Mounting 2) Direction 3) Frequency 4) Amplitude 5) Duration	: Rigidly Mounted on the Table : 3 Mutually Perpendicular Directions : Varied Log from 10 to 50 Hz. And Back to 10Hz. Every Min. : 1.5 mmp -p : 6 Hours (2 Hours in Each of Directions)

FIG. 1 THE DESIGN, CONSTRUCTION AND PHYSICAL DIMENSIONS

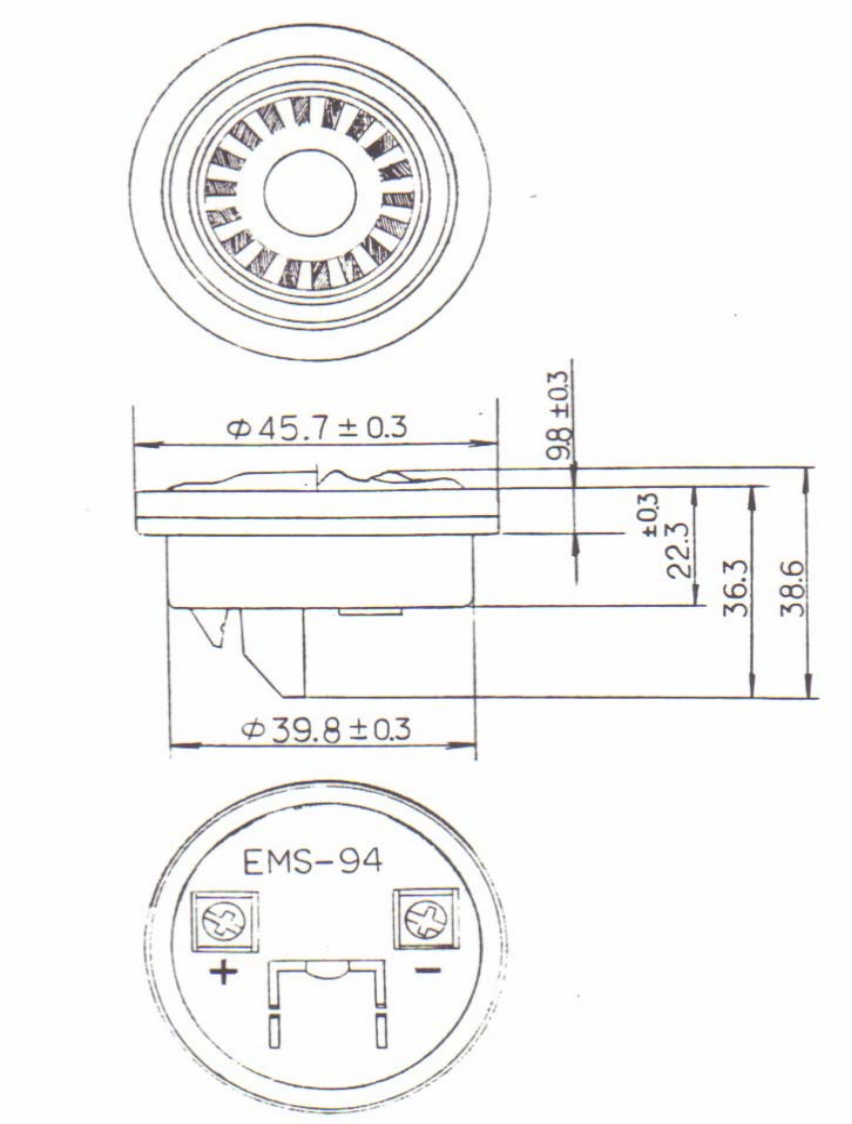

Fig.2 Frequency response limit curves.(Relative to 1KHz response)

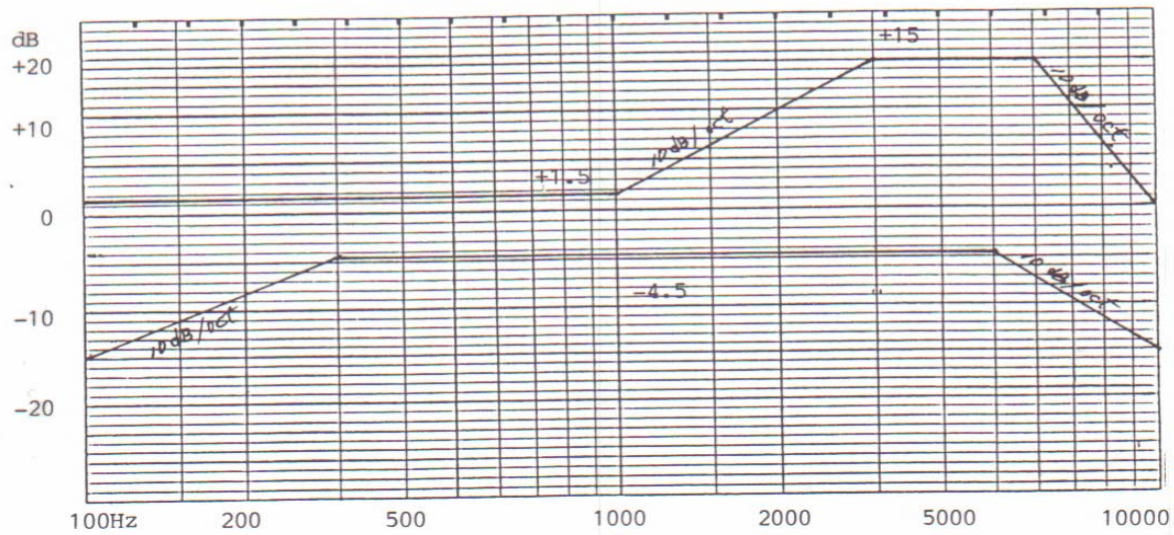

Fig.3 Frequency response measuring circuit