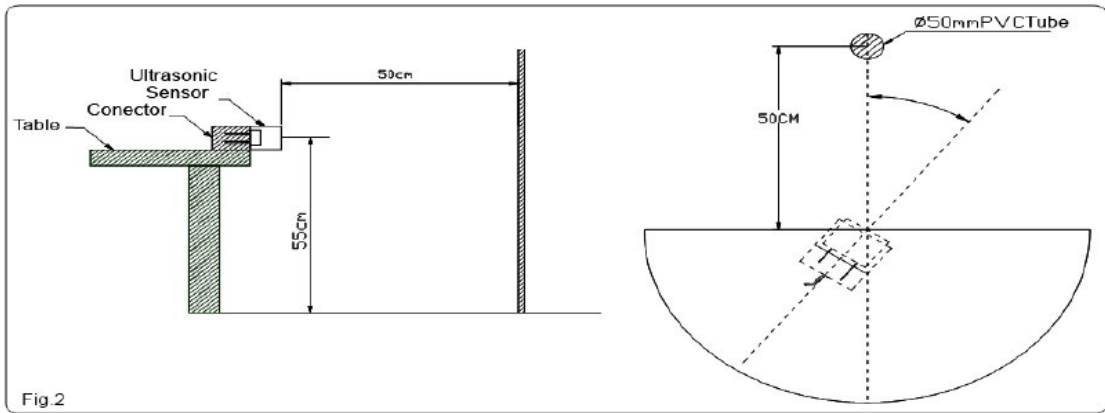
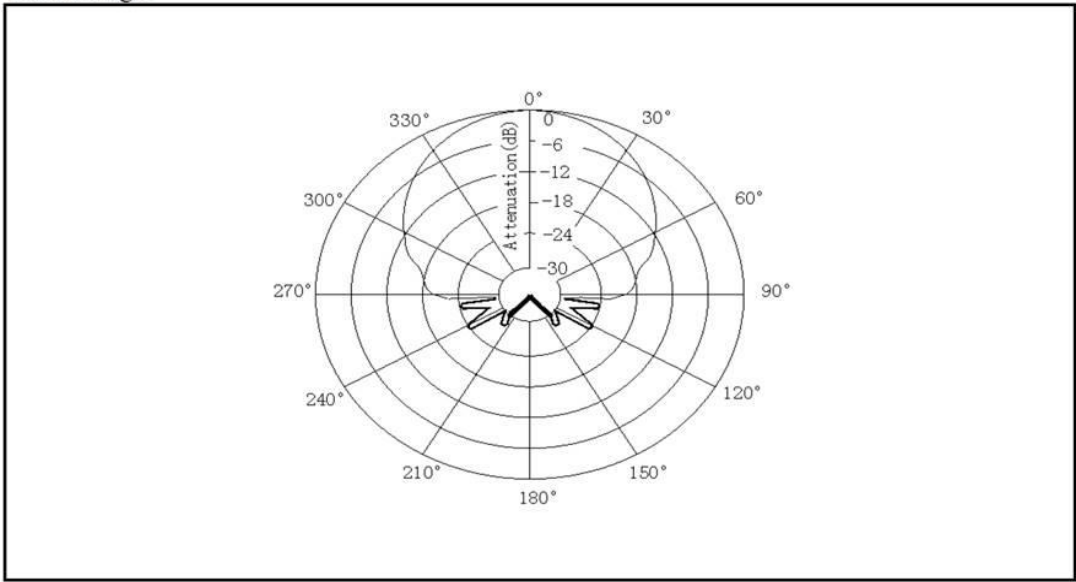
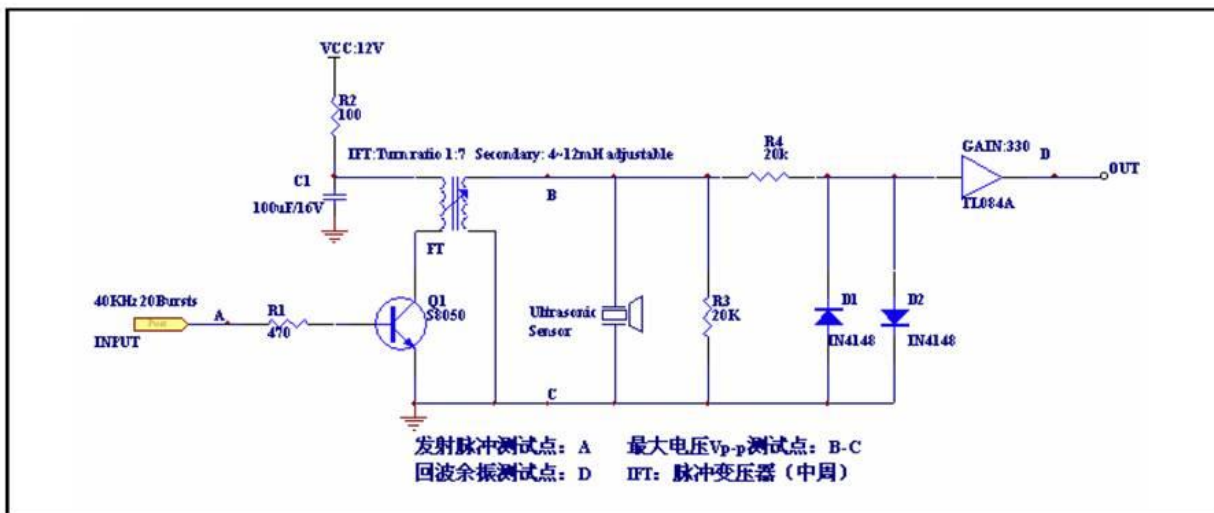


Beam Angle



■ SIMULATION TEST CIRCUIT



No.	Testing item	Testing Equipment/Methods	Testing conditions
1	Resonant Frequency	Piezoelectric Transducer Resistance Testing System II	Testing temperature :25±2°C
2	Echo Sensitivity	According to Fig. 1 Test Circuit	Distance to obstacle: 1 meter , Obstacle: organic glass board with 20CM*20CM*1.0CM 1.The inductance :8mH, Q m Value: 60-80, Pulse : 20 2.The Minimum detect distance≥35cm 3.The acoustic system without coupling
3	Ring Time	According to Fig. 1 Test Circuit	The sensor surface is covered by 100mm thickness of sponge 1.The inductance :8mH,Qm Value: 60-80, Max Pulse ≤20 2.The Minimum detect distance≥35cm 3.The acoustic system without coupling
4	Directivity	According to Fig.1 & Fig. 2 Test Circuit	In normal room temperature, the distance to the ground: 55cm the distance to the obstacle: 50cm the obstacle: diameter of 50mm PVC pipe, the obstacle height: 1 meter Note: there is no other obstacle in a circumference of 1 meter.
5	Capacitance	Digital LC ZL5	Testing temperature :25±2°C
6	Maximum Input Voltage (V p-p)	According to Fig.1 Test Circuit Oscilloscope: Tektronix TDS1002	Pulse Width: 0.5mS, Interval :20mS
7	Mean Time to Failure	Aging Equipment AWHY001	Testing temperature :25±2°C
8	Operating Temperature(°C)	High-Low alternating temperature Cabinet	In normal room temperature, according to the Fig. 4 test circuit
9	Storage Temperature(°C)	High-Low alternating temperature Cabinet	In normal room temperature, according to the Fig. 4 test circuit