

Specification

Dynamic Microphone

Our model: TCI ST5D

Cust model: _____

To: _____

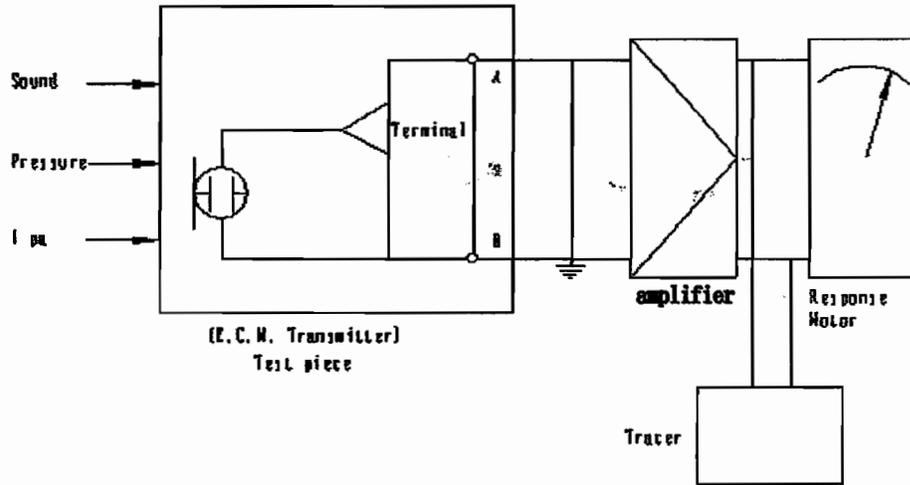
Apvd	Chkd	Design

Customer Approval:

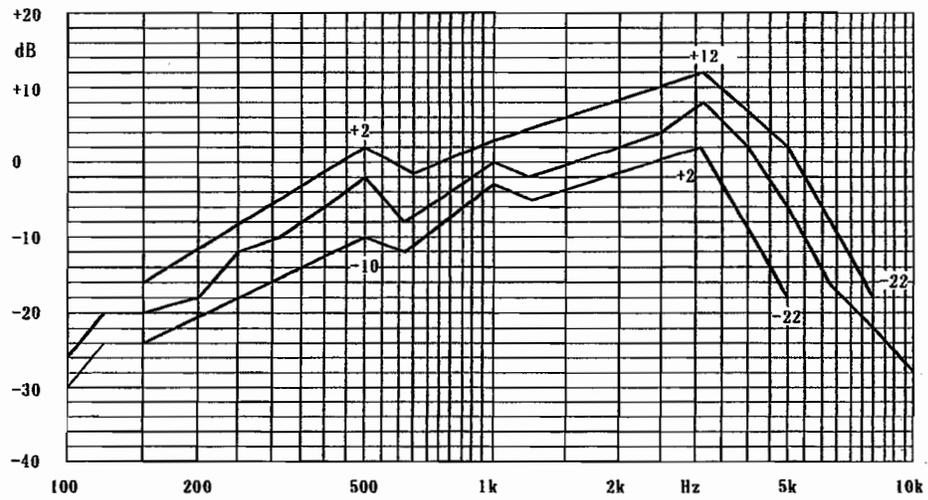
Part No.: TCI ST5D

1.	Scope	This specification applies dynamic microphone
2.	Model No.	TCI ST5D
3.	Operation Condition	
	3.1 Temperature	-20~+70°C
	3.2 Rel. Humidity	35%~85%RH
	3.3 Pressure	86~106Kpa
	3.4 Environmental Noise	36dB(Maximum)
	3.5 Operation Voltage	+1~+10VDC
	3.6 Earth	⊖
4.	Electrical Characteristics	
	4.1 Standard Operation Voltage	
	4.2 Impedance	
	4.3 Current Consumption	0.3mA(Maximum)
	4.4 Sensitivity	(0dB=1V/Pa,1KHz) -85±3dB
	4.5 Directivity	Omni-directional
	4.6 S/N Ratio	60dB(Minimum)(A-Curve at 1KHz,1Pa)
	4.7	
	Test Temperature	20°C±2°C
	Test Rel. Humidity	45%~65%RH

4.8 Schematic Diagram



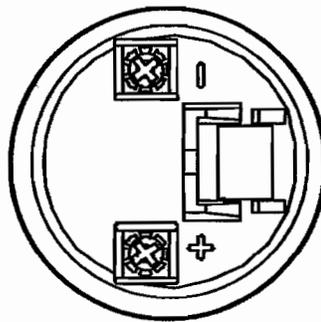
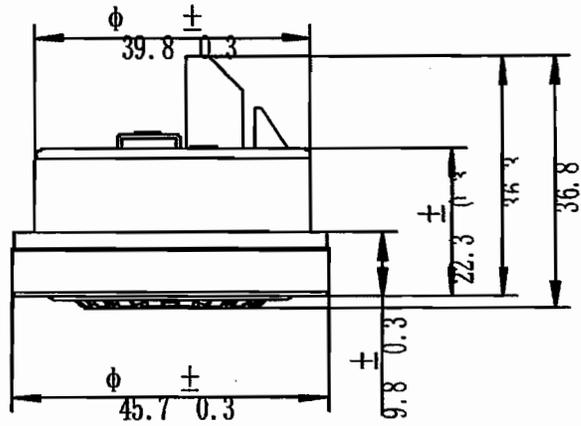
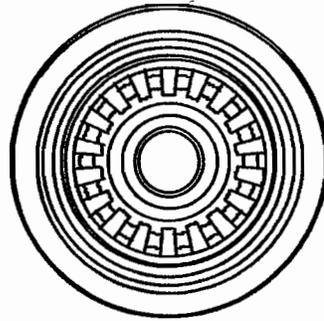
4.9 Frequency Response



5. Mechanical Characteristics

5.1 Dimension	$\phi 45.7 \times 38.6$
5.2 Mass	$\leq 25.5g$

5.3 Dimensional Drawing



Part No.: TCI ST5D

6.	Reliability Tests The sensitivity to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 20°C .	
6.1	Vibration Test	Frequency 1 $10\text{Hz}\sim 55\text{Hz}$ Amplitude $\pm 0.15\text{mm}$ Frequency 2 $55\text{Hz}\sim 150\text{Hz}$ Acceleration 20m/s^2 Change of Frequency 1 octave/min 2 hrs in each of 3 axes
6.2	Shocks Test	Pulse Shape Half Sinusoidal Pulse Duration 11ms Acceleration 150m/s^2 Number of Jolts 10 in each of 3 axes
6.3	Drop Test	To be no interference in operation after dropped to concrete floor each time from 1 meter height at three directions in state of packing.
6.4	Dry Heat/Cold Test	80°C for 72 hrs -20°C for 72 hrs
6.5	Damp Heat Test	$90\%RH, +40^\circ\text{C}$ for 100 hrs
6.6	Temperature Cycles Test	(2h) (1h) (2h) 4cycles
7.	7.1 The soldering copper of a smaller type of less than 20W shall be applied. 7.2 The temperature of the working surface of the soldering copper shall be below 270°C . 7.3 The soldering time for each terminal shall be 1~2 sec.	