

## SPECIFICATION

### 1. Scope

This specification covers the Datron transducer for cleaning under the atmosphere of  $25\pm 3^{\circ}\text{C}$  40 ~ 70%RH.

### 2. Type

#### **Trans-C5830(3)30**

Trans-C	58	30	(3)	30
Transducer	Frequency	Ceramic dia.	PZT spec.	Emitting dia.

### 3. Dimensions

As per the drawing : Height = 35.5m/m    Emitting Diameter = 30m/m



### 4. Electrical Specification ( By Piece )

- a. Resonant Frequency  $F_r = 58 \text{ kHz} \pm 0.5 \text{ kHz}$
- b. Resonant Resistance  $Z_r < 20 \Omega$
- c. Capacitance  $\text{CAPA} = 4.7 \pm 20\% \text{ nF}$
- d.  $\text{tgD} (\% \text{ KHz}) < 0.5$
- e.  $Q_m > 500$

### 5. Mechanical Characteristics ( Periodical in Laboratory )

- a. Acoustic Power =  $5.6 \pm 0.5 \text{ Wcm}^{-2}$     -- By Ohmico Ultrasonic Power Meter UMP- DT-1AV
- b. Amplitude :  $> 2.6 \mu\text{m}$  for 58Khz    -- Peak-to-peak in sinusoidal  
 $> 0.8 \mu\text{m}$  for 200Khz    -- Peak-to-peak in sinusoidal

### 6. Impedance VS Frequency curve of Trans-C5830(3)30

