

## TECHNICAL DATA OF PC40-18S

### (1) Electrical Characteristics

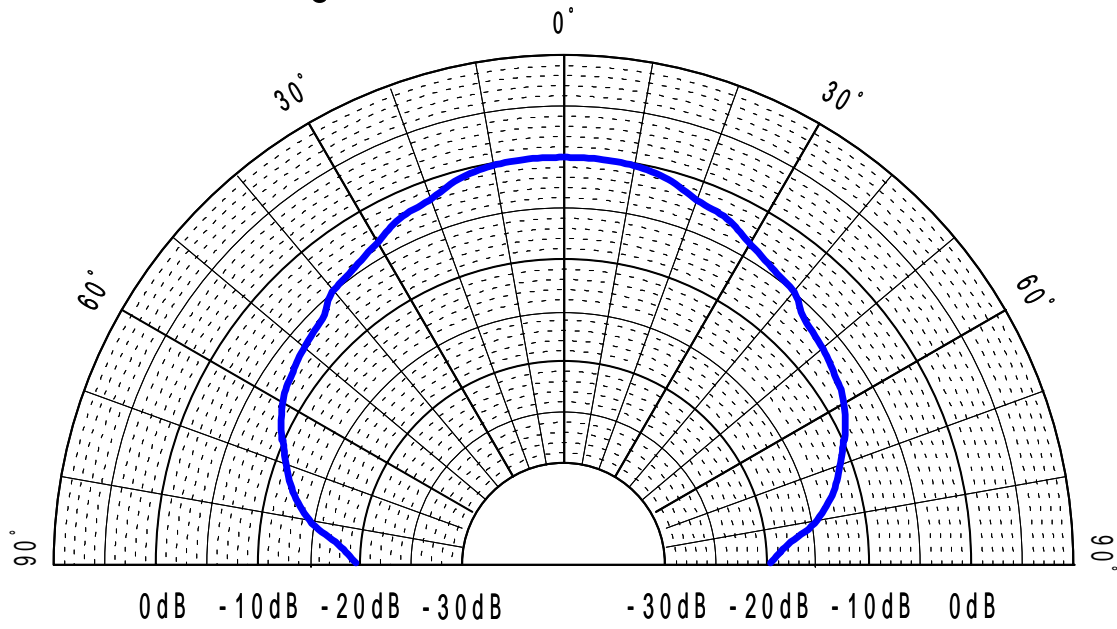
Part Number		PC40-18S
1	S.P.L. (TYP.) (dB) (min. ~ max.)	110.5 108.4 ~ 112.8
2	Sensitivity (TYP.) (dB) (min. ~ max.)	-78.7 -80.5 ~ -77.7
3	Resonant Frequency (TYP.) (kHz) (min. ~ max.)	39.4 39.1 ~ 39.7
4	Resonant Impedance (TYP.) ( ) (min. ~ max.)	410 390 ~ 430
5	Anti-Resonant Frequency (TYP.) (kHz) (min. ~ max.)	40.7 40.4 ~ 41.0
6	Anti-Resonant Impedance (TYP.) ( ) (min. ~ max.)	11100 10500 ~ 11800
7	Capacitance at 1kHz (TYP.) (pF) (min. ~ max.)	2330 2100 ~ 2500
Samples (pcs)		10

S.P.L.: 0dB=0.0002 μbar, Input Voltage 10Vrms, Distance 30cm

Sensitivity : 0dB=1V/ μbar , RL=3.9k , Distance 30cm

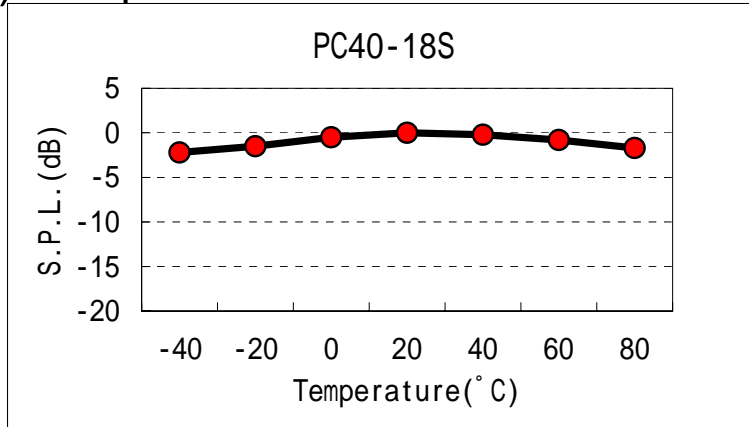
## (2) Directivity

-6dB Full Angle :  $85^\circ$

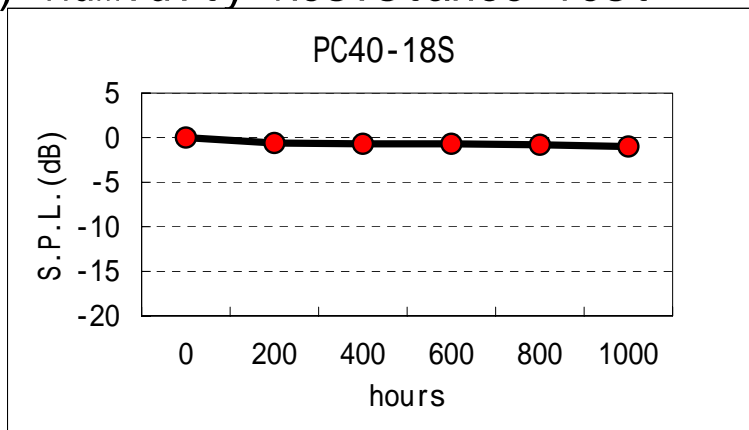


### (3) Environmental Characteristics

#### (a) Temperature Characteristics

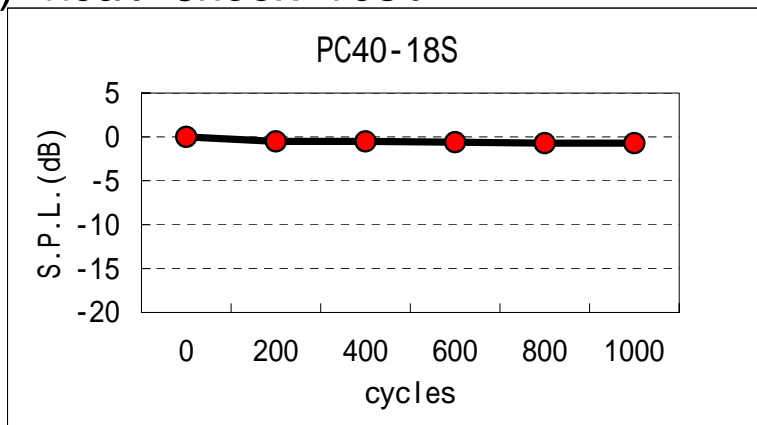


#### (b) Humidity Resistance Test



$40 \pm 2^\circ \text{C}$   
 90 ~ 95%RH  
 1000hours

#### (c) Heat Shock Test



With  $-30^\circ \text{C}$  (1hr)  
 and  $85^\circ \text{C}$  (1hr)  
 as one cycle.  
 1000cycles

## (4) Input Voltage/S.P.L. Characteristics

