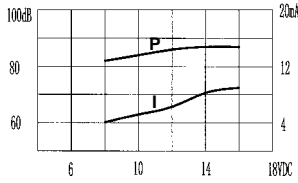
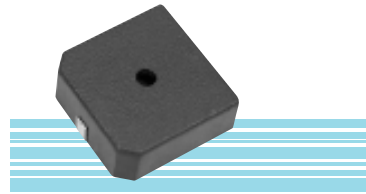


SMT Buzzer

SPA-1712 series SMT Buzzer

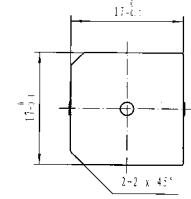


| | |
|---------------------------|--------------------|
| Model No | SPA-1712 |
| Rated Voltage | 12VDC |
| Operating Voltage | 1.5~16 VDC |
| Max. Rated Current | 10mA at 12VDC |
| Min. Sound Pressure Level | 85dB / 12VDC/ 10cm |
| Resonant Frequency | 4.0±0.5KHz |
| Operating Temperature | -20~+80jæ |
| Tone Nature | Continuous |
| Weight | 2 g |

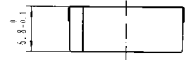


color Black
PPS Housing Material
SMT Terminal

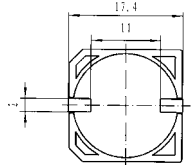
DIMENSIONS



Top View



Side View

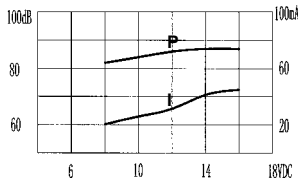


Bottom View

all dimensions are in mm

* Value applying at rated voltage

SMA-1200B series SMT Buzzer

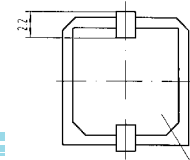


| Model No | SMA-1201B | SMA-1205B | SMA-1212B |
|---------------------------|--------------|--------------|--------------|
| Rated Voltage | 1.5V | 5V | 12V |
| Operating Voltage | 1.4~3V | 4~7V | 8~15V |
| Max. Rated Current | 20mA | 40mA | 40mA |
| Min. Sound Pressure Level | 80dB/10cm | 87dB/10cm | 90dB/10cm |
| Resonant Frequency | 2300Hz±300Hz | 2300Hz±300Hz | 2300Hz±300Hz |
| Operating Temperature | -20~+70jæ | -20~+70jæ | -20~+70jæ |
| Tone Nature | Continuous | Continuous | Continuous |
| Weight | 2 g | 2 g | 2 g |

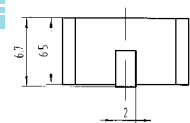


color black
PPS Housing Material
SMT Terminal

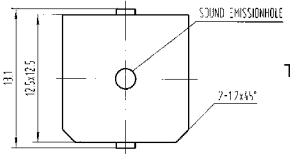
DIMENSIONS



Bottom View



Side View

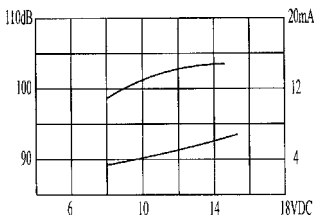


Top View

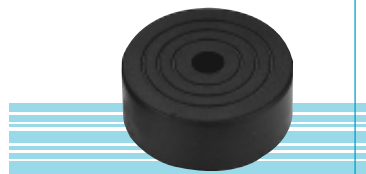
all dimensions are in mm

* Value applying at rated voltage

KPI-4000P series Piezo buzzer

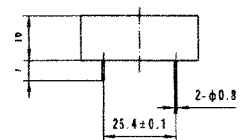


| | |
|---------------------------|--------------------|
| Model No | KPI-4000P |
| Rated Voltage | 12VDC |
| Operating Voltage | 3-20VDC |
| Max. Rated Current | 12mA at 12VDC |
| Min. Sound Pressure Level | 98dB at 12VDC/30cm |
| Tone Nature | Continuous |
| Resonant Frequency | 2.8±0.5KHz |
| Housing Material/Color | ABS/Black |
| Operating Temperature | -20jæ~+60jæ |
| Store Temperature | -30jæ~+70jæ |
| Weight | 10g |

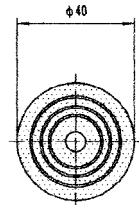


color Black
ABS Housing Material
Lead Terminal

DIMENSIONS



Side View



Top View

all dimensions are in mm

* Value applying at rated voltage