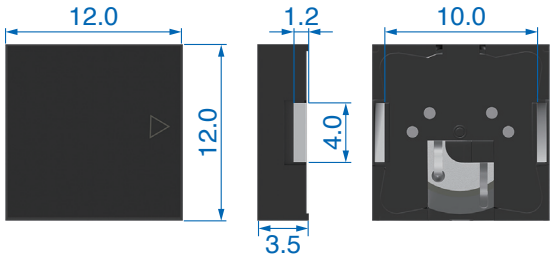
Piezoelectronic buzzers
SMD type
PST series

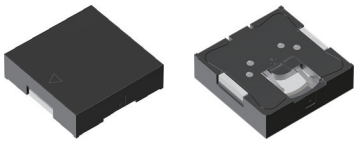
PST1240P02 type

FEATURES

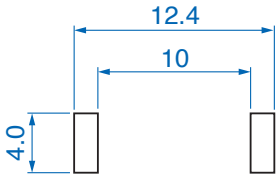
- Compact product with a 12mm size.
- Compatible with SMD and can be used in the reflow process.

SHAPE & DIMENSIONS





RECOMMENDED LAND PATTERN

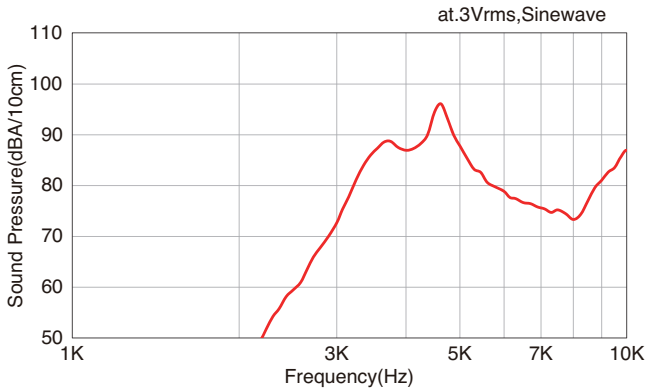


SPECIFICATIONS

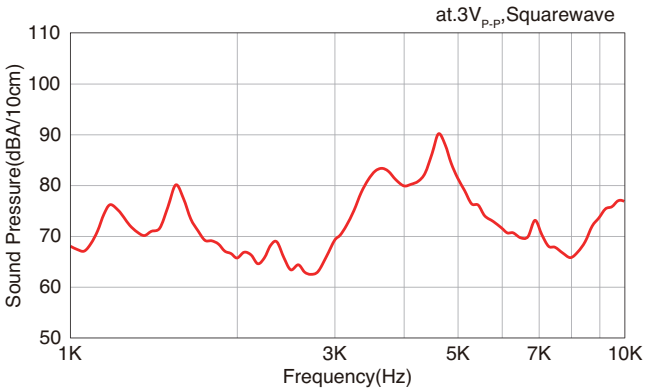
Sound pressure	75dB(A) or higher/10cm min [at 4kHz, 3V_{P-P} (±1.5V), measurement temperature: 25±5°C, humidity: 60±10%]
Operating temperature range	−40 to +85°C
Storage conditions	Store in an environment of 5 to 40°C, 20 to 70%RH, and use within 6 months.
Maximum input voltage	25V_{P-P} (±12.5V) max
Minimum delivery unit	5,000 pieces

FREQUENCY SOUND PRESSURE CHARACTERISTICS

SINE WAVE DRIVE



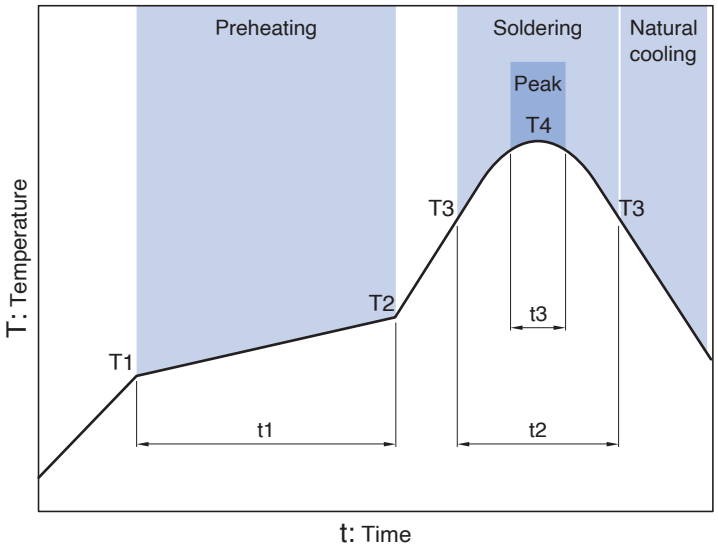
SQUARE WAVE DRIVE



⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
Please note that the contents may change without any prior notice due to reasons such as upgrading.

PST1240P02 type

RECOMMENDED REFLOW PROFILE

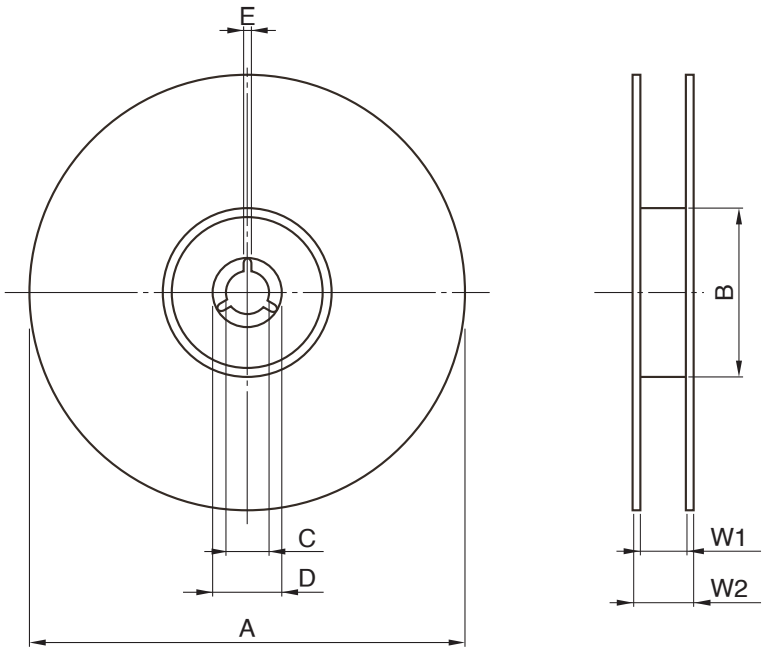


Preheating			Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	20 to 40s	250 to 260°C	5s max.

PST1240P02 type

PACKAGING STYLE

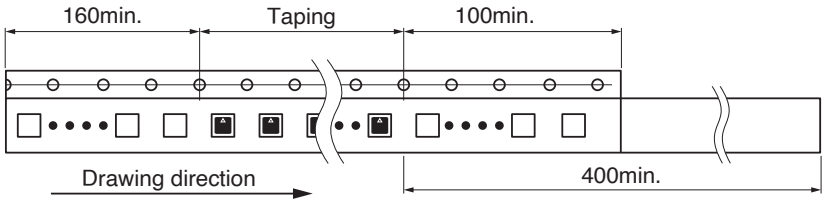
Taping specifications



Dimensions (mm)	A	B	C	D	E	W1	W2
	ø330±2	ø100±2	ø13.2±0.3	ø21.0±0.4	2.5±0.3	25.5±1	(29.5)

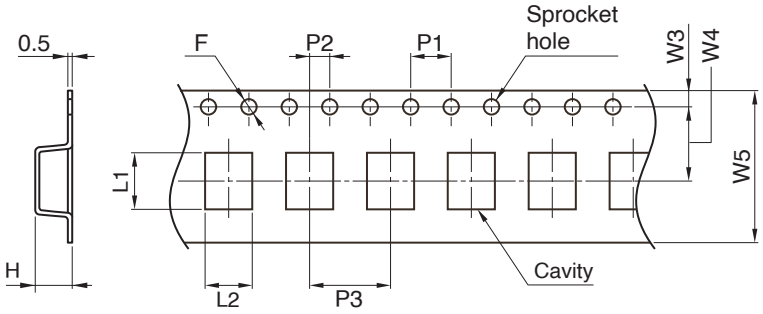
Dimensions in mm

Product mounted condition



Dimensions in mm

Carrier tape dimensions



Dimensions (mm)	L1	L2	H	W3	W4	W5	F	P1	P2	P3
	12.5±0.1	12.5±0.1	3.6±0.1	1.75±0.1	11.5±0.1	24±0.3	ø1.5+0.1/-0	4±0.1	2±0.1	16±0.1

Dimensions in mm

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products

REMINDERS

Please be sure to read the specifications of TDK electromagnetic buzzer(hereinafter referred to as “the buzzer”) before use.

- Do not apply DC bias to the piezoelectric buzzer; otherwise insulation resistance may become low and affect the performance.
- Do not supply any voltage higher than applicable to the piezoelectric buzzer.
- Do not use the piezoelectric buzzer outdoors. It is designed for indoor use. If the piezoelectric buzzer has to be used outdoors, provide it with waterproofing measures; it will not operate normally if subjected to moisture.
- Do not wash the piezoelectric buzzer with solvent or allow gas to enter it while washing; any solvent that enters it may stay inside a long time and damage it.
- A piezoelectric ceramic material of approximately 100μm thick is used in the sound generator of the buzzer. Do not press the sound generator through the sound release hole otherwise the ceramic material may break. Do not stack the piezoelectric buzzers without packing.
- Do not apply any mechanical force to the piezoelectric buzzer; otherwise the case may deform and result in improper operation.
- Do not place any shielding material or the like just in front of the sound release hole of the buzzer; otherwise the sound pressure may vary and result in unstable buzzer operation. Make sure that the buzzer is not affected by a standing wave or the like.
- Be sure to solder the buzzer terminal at 350°C max.(80W max.)(soldering iron trip) within 5 seconds using a solder containing silver.
- Avoid using the piezoelectric buzzer for a long time where any corrosive gas H2S, etc.) exists; otherwise the parts or sound generator may corroded and result in improper operation.
- Be careful not to drop the piezoelectric buzzer.
- High safety and reliability is needed, and or, there is fear that failure, wrong movement, failure of product damages and worldly goods etc related to life and health of people, or do not use for equipment(as nuclear power equipment, automobile, aircraft, medical device) with fear that significant influence is had socially
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
  The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
  If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

(1) Aerospace/aviation equipment
(2) Transportation equipment (cars, electric trains, ships, etc.)
(3) Medical equipment
(4) Power-generation control equipment
(5) Atomic energy-related equipment
(6) Seabed equipment
(7) Transportation control equipment
(8) Public information-processing equipment
(9) Military equipment
(10) Electric heating apparatus, burning equipment
(11) Disaster prevention/crime prevention equipment
(12) Safety equipment
(13) Other applications that are not considered general-purpose applications

- This product is for general use. Do not use it for automotive applications.