

EDCON-COMPONENTS



Specifications

Operating Voltage:	3 V p-p max.
Operating Frequency:	4000 Hz +/-500Hz
Typical Sound Output:	75dB min at 3V p-p 10cm , 4,0KHz, 25°C
Rated Current:	1mA at 3V p-p
Capacitance:	15000 +/-30% pf at 100Hz 1Vrms
Operating Temperature:	. -30°C to +85°C
Storage Temperature:	. -40°C to +90°C
Termination:	2 soldering pads, Sn plated over Brass
Case Materials:	Plastic, LCP
Diaphragm	Ni Alloy Disc N42
Weight:	0,8gr.
Life Test	At 3Vp-p in room temperature continuously for 1000hours
High Temperature: Tol.2°C	No function at +90°C for 240hours; function at 85°C for 240hours
Low Temperature: Tol. 2°C	No function at -40°C for 240hours; function at 30°C for 240hours
Humidity:	. +40°C +/-2°C, 95% +/-5% RH, 240hours . -30°C +/-2°C, 0,5hours . +25°C +/-2°C, 0,25hours . +85°C +/-2°C, 0,5hours
Thermal Shock:	Go up or Drop time is 0,5hr. 3hrs per cycle total is 5 cycles
Vibration:	1,5mm with 10 to 50Hz of vibration frequency to each of 3 perpendicular directions of 2 hours
Shock:	980m/s ² (100g) shock for each mutually perpendicular directions, half sine wave, 3 times each
Drop Test:	Dropped naturally from 750mm height onto the surface of 10mm wooden board. 2 directions upper and side of the parts are appl.
Soldering Heat Resistance:	Samples put through reflowing soldering over 2 times
Solderability:	Samples put on the PCB with solder paste through reflowing soldering over 1 times for a period of one (1) year from date of manufacture under normal operations.

Features

Reliable Solid State Piezoelectric Technology
Corrosion Resistance Diaphragm
Flame Retardant Plastic
Tape and Reel Packaging for auto mounting

Applications

Automatic Control Equipment
Communication Equipment
Electronic Instruments

Warranty

All specifications must be satisfied after the test (Recovery: 2 to 4 hrs of recovery under the standard condition after the removal from test chamber). 90% min soldering pads shall be with solder (except the edge of pad).

SMD Piezo Transducer

Part No.: **Y13002**

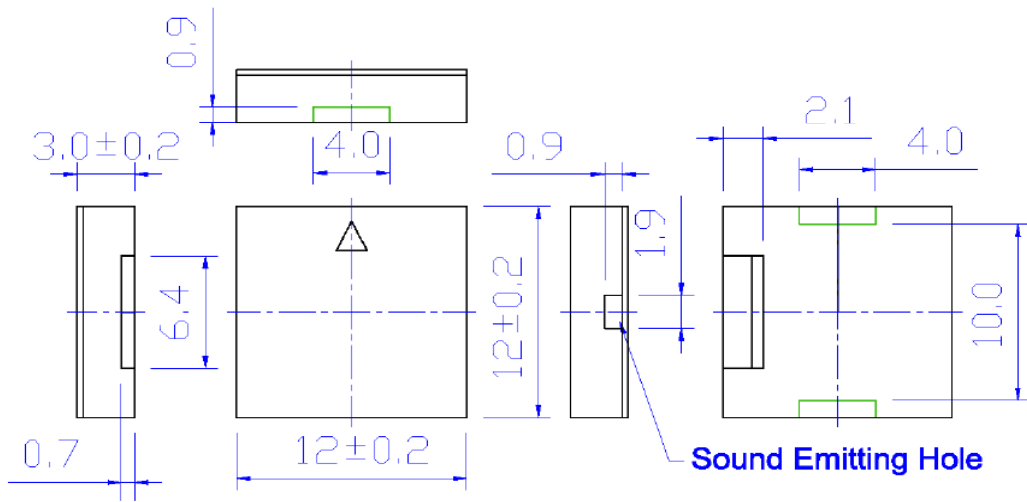
Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	23.05.2019
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 4

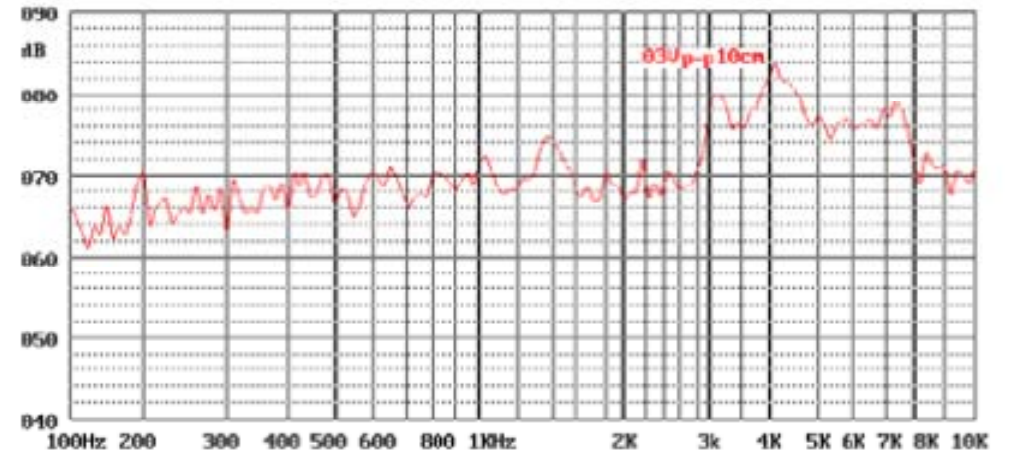
EDCON-COMPONENTS



Dimensions (mm)



Characteristics



SMD Piezo Transducer	
Part No.:	Y13002
Customer:	

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	23.05.2019
APPD:	Schumi			FINISH	Jamy		Sheet No.	2 from 4	

EDCON-COMPONENTS



Ordering Informations

Serie	Model-No.	ROHS	Package						
Y13002	12A03-4.0F	R	TR						

R= ROHS Conform	TR= Tape Reel
N= NON ROHS Conform	TU= Tube Packing
	TY= Tray Packing

SMD Piezo Tranducer	
Part No.:	Y13002
Customer:	

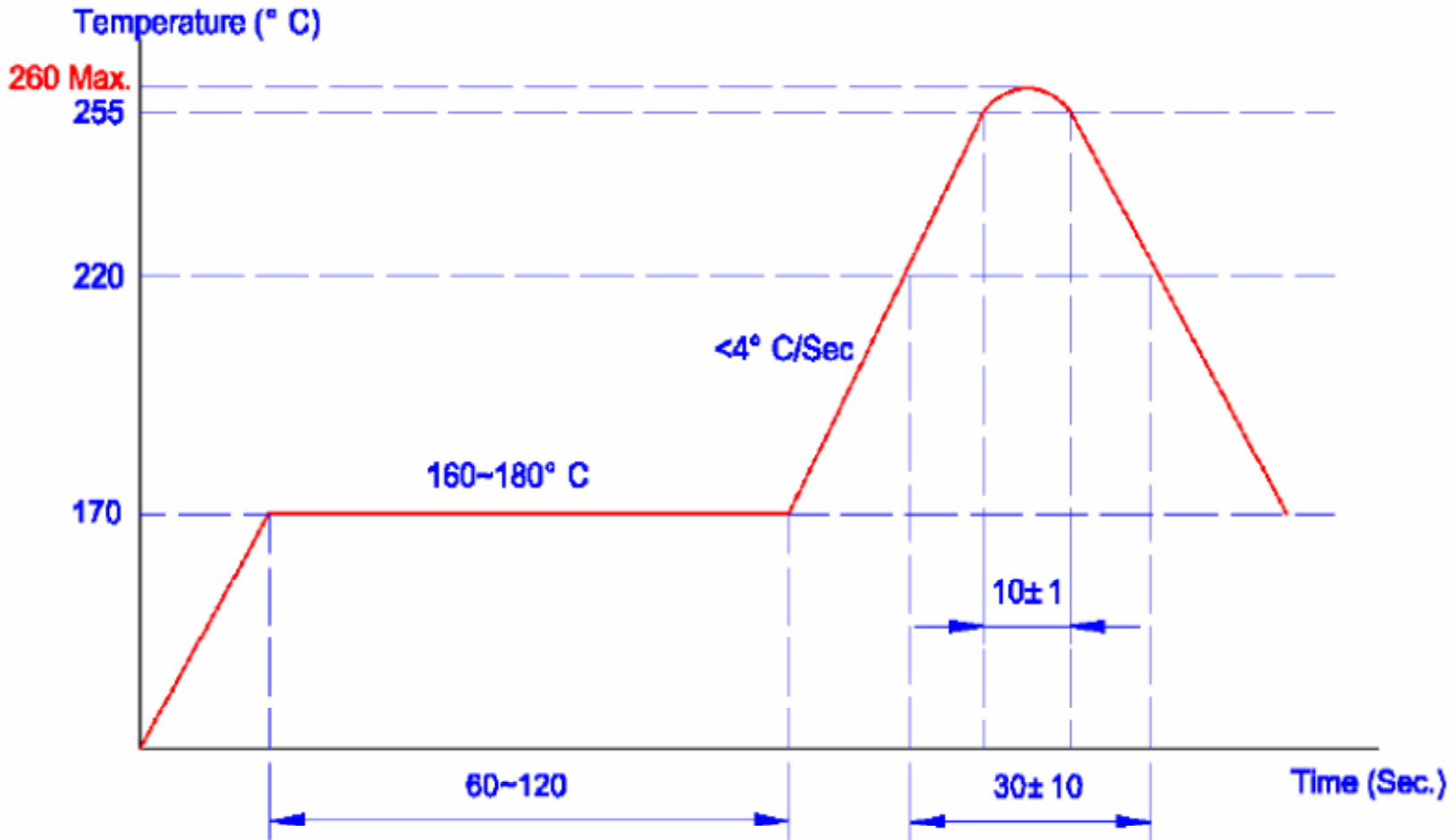
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	23.05.2019
APPD:	Schumi			FINISH	Jamy		Sheet No.		3 from 4

www.edcon-components.com

email: info@edcon-components.com



Soldering Profile Curve



SMD Piezo Transducer	
Part No.:	Y13002
Customer:	

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	23.05.2019
APPD:	Schumi			FINISH	Jamy			Sheet No.	4 from 4