

SPECIFICATIONS

1 SCOPE

This specification shall cover the characteristics of the piezoceramic transducer element with the type JYYT1.00C10AD0H5-T0.

2 PART NO.

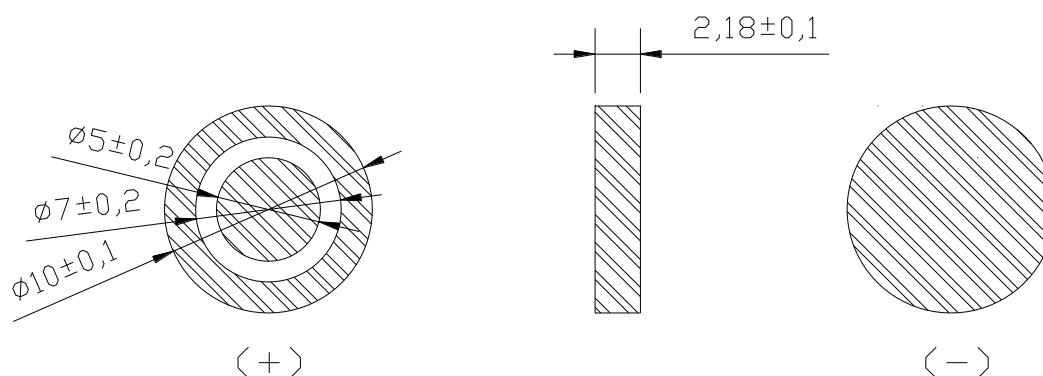
PART NUMBER	CUSTOMER PART NO	SPECIFICATION NO
JYYT1.00C10AD0H5-T0		1724079_A1.pdf and 1724079_tape.pdf

3 OUTLINE DRAWING AND DIMENSIONS

3.1 Appearance: No visible damage and dirt.

3.2 The products conform to the RoHS directive and national environment protection law.

3.3 Dimensions (Unit: mm)



Electrode material: Ni with Au top layer.

Electrode thickness: Au $0.1 \mu\text{m} \sim 0.2 \mu\text{m}$; Ni $1.5 \mu\text{m} \sim 2.5 \mu\text{m}$.

4 ELECTRICAL SPECIFICATIONS

Items	Unit	Content
Resonant frequency (Fr)	MHz	1.00 ± 0.02
Resonant impedance (Rr)	Ω	≤ 100
Keff		> 0.3
Static capacitance (C_0)	pF	$320 \pm 20\%$
$\text{tg } \delta$		≤ 0.03
d33	$\times 10^{-12}\text{C/N}$	≥ 380

5 TEST

5.1 Test Conditions

Parts shall be measured under a condition (Temp.: $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$, Humidity: 40%~70% R.H.).

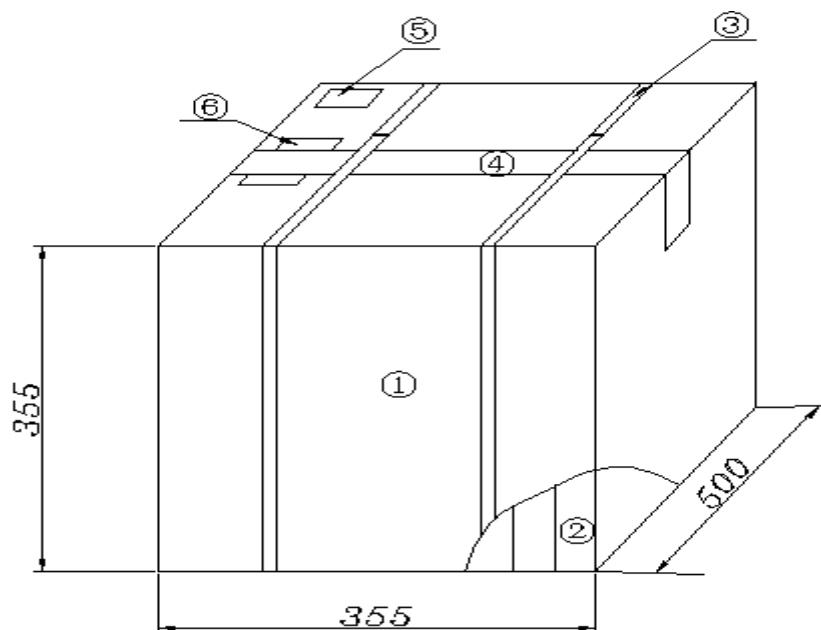
5.2 Test procedure

Item	Test procedure
Resonant frequency (Fr)	Measuring thickness vibration mode, Agilent 4294A Impedance analyzer
Resonant impedance (Zr)	
Keff	
Static capacitance (C_0)	Agilent 4284A Precision LCR Meter (at
tg δ	1kHz/1V)
d33	d33 Meter

6 PACKAGE

To protect the products in storage and transportation, it is necessary to pack them (outer and inner package). On paper pack, the following requirements are requested.

6.1 Dimensions and Mark



NO.	Name	Quantity
①	Package	1
②	Inner Box	3
③	Belt	2.9 m
④	Adhesive tape	1.2 m
⑤	2D barcode label	1
⑥	Certificate of approval	1
⑦	Shock absorption materials	8

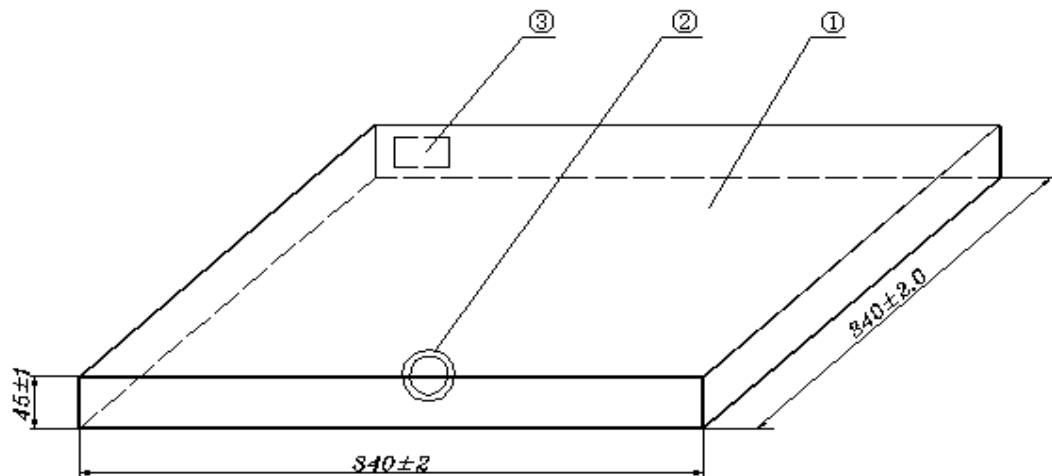
6.2 Section of Package

Package is made of corrugated paper with thickness of 0.8cm. Each package has 3 inner boxes, each box has 1 reel(each reel for plastic bag).

Quantity of package

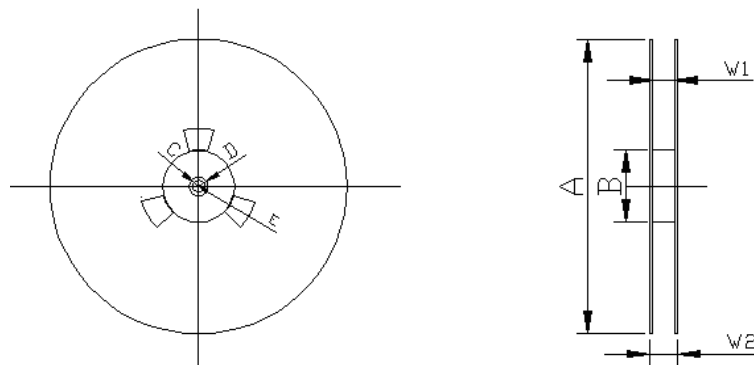
Per plastic reel	1500 pieces
Per inner box	1 reel
Per package	3 inner boxes

6.3 Inner Packing Dimensions



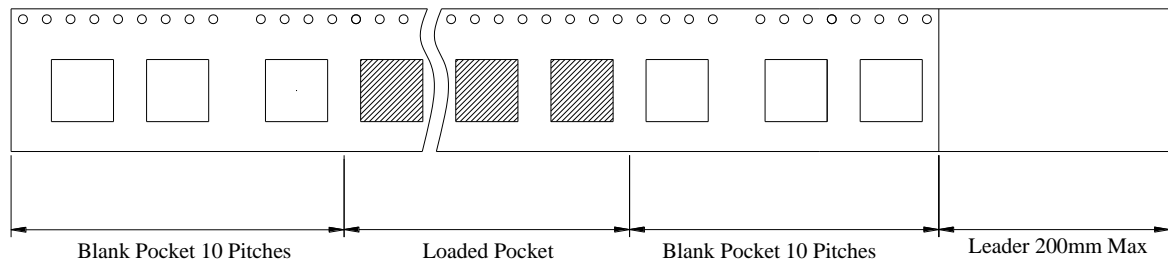
NO.	Name	Quantity
①	2D barcode label	1
②	QC Label	1
③	2D barcode label	1

6.4 REEL

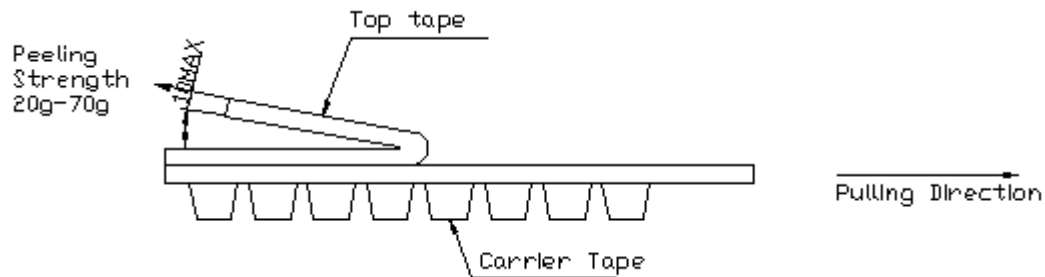


ΦA	ΦB	ΦC	ΦD	E	W1	W2
330±5.0	80±3.0	13.5±1.0	21±1.0	2.0±0.3	24±0.3	30.4±0.3

6.5 Carrier Packing schematic



6.6 Peel strength test



7 OTHER

7.1 Caution of use

7.1.1 Please don't apply excess mechanical stress to the component at soldering. The component may be damaged when an excess stress will be applied.

7.1.2 This specification mentions the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

7.2 Notice

7.2.1 Please return one of these specifications after your signature of acceptance.

7.2.2 When something gets doubtful with this specification, we shall jointly work to get an agreement.