

SPECIFICATION FOR PIEZO ELECTRIC BUZZER

TOTAL PAGE 06 www

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RoHS

Customer		Model Name	FT-23G-3.5A1-W035
Customer P/N		Product No.	
Date	9 Jan. 13	Issue No.	BS/TEY01.453D
Page	01 of 06	Issue Date	17/07/11

Approval:

1.Electrical characteristics

- 2.Dimension
- 3.Characteristics
- 4. Measuring Method
- 5.Reliability Test
- 6.Packing
- 7. History Change Record

Drawn by	Checked by	Approved by	Customer approved

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FT-23G-3.5A1-W035

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1.Electrical characteristics

1.	Resonant Frequency	3.5±0.5 KHz
2.	Resonant Impedance	1500 ohm Max
3.	Capacitance at 120Hz	18±30% nF
4.	Insulation resistance	100M ohm Min
5.	Input Voltage	30 Vp-р
6.	Operating Tmperature	-20+70°C
7.	Storage Temperature	-30+80 °C
8.	Metal Material	SUS316L

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2.Drawing

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FT-23G-3.5A1-W035

3. Characteristics:

3.1 Solderability

Solder AWG 30 wire with solder wire(SnAgCu) at 300±10°C on the ceramic , less than 2 seconds duration of soldering.

3.2 Lead pull off test

a) Wire to be soldered on ceramic at the edge. It should withstand minimum 20N force applied in 180°. The wire should not come out before this .The ceramic can be either glued on a surface of can be held in hand. (Fig.3.2)

b) Wire to be soldered on ceramic at the edage&should be pulled up at 90° The element should be hold on bottom and wire should be pulled up .It should withstand at least for 2.8N force(Fig.3.1)



Fig.3.1 Direction of Lead Wire



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Fig.3.2 Direction of Lead Wire

4. Measuring Method

4.1.Resonant Frequency/ Resonant Impedance:

Piezoelectric disc shall be clamped at a node or edge point ,figure to be free from any mechanical stresses, and measure its resonant frequency and resonant impedance by using vector impedance analyzer or equivalent.

Input frequency shall be swept within 1 to 5 kHz, where the resonant frequency is defined and the

frequency

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where the impedance shows minimum value, this impedance shall be the resonant impedance.

4.2.Capacitance:

A electrostatic capacity capacitance shall be measured at 120Hz by using LCR meter, such as DF2812A LCR number bridge or equivalent. The part shall be clamped in the same way as the measurement of resonant frequency / resonant impedance mentioned in section 4.1.

4.3.Insulation Resistance:

An insulation resistance shall be measured by using an insulation resistance meter, suach as DF2863 insulation resistance meter.

4.4.Measureing Condition:

Parts shall be measured under the standard condition(Temperature:+23±5°C,Humidity:45±10%R.H.)is redulated to measure.

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	D	17/07/11	Liu Rufeng	Change Material	Metal	Date:	14/01/09	FT-23G-3	5 \ 1	11/025	
	С	15/03/05	Liu Rufeng	Change	Glue	Drawn by:	Ma Guoyang	F1-23G-3	.5A1-	10000	
А	В	14/11/20	Liu Rufeng	Add Pacl	kaging	Checked by:	Mi chae l	Piezo Ceram	io Ele	mont	A
	Rev.	Date	Drawn	Note	9	Approved by:	Li Hongyuan	Flezo Cerail		ement	
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	C	15/03/05	Liu Rufeng	Material Change Glue	Date: Drawn by:		a Guoyang	FT-23	3G-3.5A1-V	V035
1	АВ	14/11/20	Liu Rufeng	Add Packaging	Checked by:	M	i chae I	Piezo C	eramic Ele	ement
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7. History change record

version Change Items				Date Drav		n Approved		
No.	Before	e Af	er		Diam			
A				14/01/09	Ma Guoy	ang Li	Hongyuan	
В		Add Pa	ckaging	14/11/20	Liu Ruf	eng Li	Hongyuan	
С	Silica gel Black	KE-44 GI	ue White	15/03/05	Liu Ruf	eng Li	Hongyuan	
D	Metal Material :S	SUS304 Metal Mat	erial :SUS316L	17/07/11	Liu Ruf	eng Li	Hongyuan	
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