

F/SWI-155

Technical terms *Technische Daten*

Operating voltage *Betriebsspannungsbereich*

4...7V

Rated Voltage *Nennspannung*

5V

a) Rated Current *Nennstrom*

≤30mA

a) Sound Output [SPL]at 10 cm *Schalldruckpegel] in 10 cm*

≥85dB

a) Resonant Frequency *Resonanzfrequenz*

2300 ± 300 Hz

Temperature Range *Temperaturbereich*

-40 ...+85°C

Storage Temperature *Lagerungs-Temperatur*

-40 ...+90°C

Weight *Gewicht*

2 g

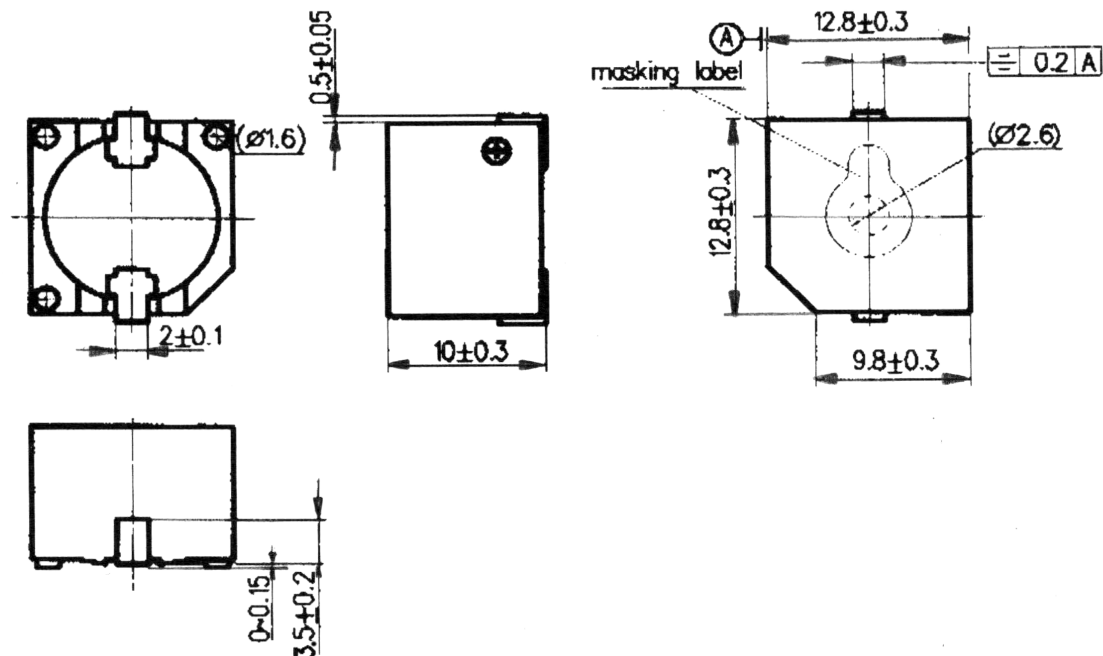
a) Value applying rated voltage (DC)

Wert bei angelegter Nennspannung (DC)

Sound Output after reliability test more than > 80 dB

Lautstärke nach Zuverlässigkeitstest mehr als > 80 dB

Drawings *Zeichnungen*

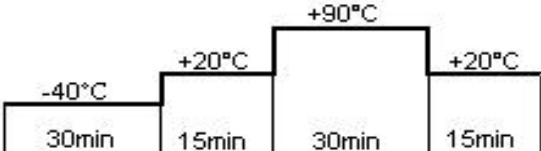
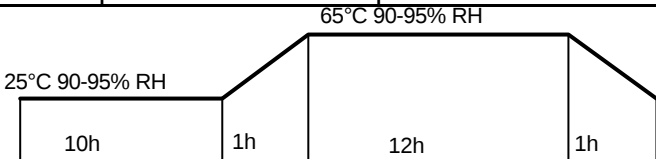
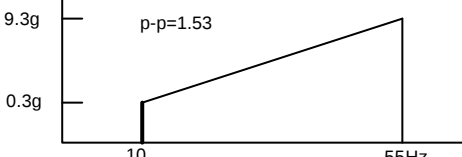


			Halbzeug, Werkstoff				Untolerierte Maße		Zeichn.-Nr. 951101.6B	
							Maßstab			
								Ersatz f. Page Blatt1 of von 2 Zeichn.		
	Tag	Name	And. zust.	And.-Mittlg. Nr.	Tag	Name	F/SWI-155			
gezeichnet										
bearbeitet	14.12.98									
geprüft	14.12.98									
normgepr.										

Diese Zeichnung ist unser Eigentum. Vervielfältigung, Verbreitung, Weitergabe, Nachahmung, Kopie, Reproduktion, Verbreitung und sonstiger Gebrauch ist ohne schriftliche Genehmigung strafbar und schadenstutzbar.

Vervielfält.-Pause
Nr.

Arbeitspause Nr.

Item	Method of test	Standard
Storage in high temp.	Storage in +90°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.	All specifications must be satisfied in this condition.
Storage in low temp.	Storage in -40°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.	All specifications must be satisfied in this condition.
Life test in room temp.	Operate continuously for 1000 hours with applying rated voltage.	All specifications must be satisfied in this condition.
Life test in high temp.	Operate continuously in +85°C for 500 hours applying 7V.	All specifications must be satisfied in this condition.
Life test in low temp.	Operate continuously in -40°C for 500 hours applying 4V.	All specifications must be satisfied in this condition.
Temperature cycle test	 Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.	All specifications must be satisfied in this condition.
Humidity cycle test	 Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.	All specifications must be satisfied in this condition.
Vibration test	 Make this test for the directions X,Y and Z for 2 hours each (total 6 hours). To- and -fro sweep time is 1 min.	All specifications must be satisfied in this condition.
Drop test	Drop a buzzer naturally from the height of 700 mm to the surface of 10 mm thick woodenboard. Three directions (X,Y &Z)	All specifications must be satisfied in this condition.
Solderability test	1. Hand soldering system Soldering Temperature : 230 °C Heat applying time: 3 sec. 2. Reflow soldering process Recommended standard conditions Peaktime: 60sec; Peaktemperature: 220°C Under the condition that higher Peaktemperature is combined with shorter Peaktime, the process may vary within following ranges: a.) For a Forced-Convection-Soldering-System Range of Peaktemp.: 205°C ... 230°C Range of Peaktime: 33sec ... 130sec b.) Infrared-Nitrogen-Batch-Soldering-System Range of Peaktemp.: 210°C ... 220°C Range of Peaktime: 50sec ... 80sec	All specifications must be satisfied in this condition.

	Halbzeug, Werkstoff		Untolerierte Maße		Zeichn.-Nr. 951101.6B	
			Maßstab			
Vervielfält.-Pause Nr. Arbeitspause Nr.			Ersatz f. Page Blatt 2 of von 2 Zeichn.			
gezeichnet	Tag	Name	And. zust.	And.-Mittlg. Nr.	Tag	Name
bearbeitet	14.12.98					
geprüft	14.12.98					
normgepr.						

F/SWI-155
Reliability Test