DIGISOUND®

F-DG105P

Magnetic-THT-Buzzer without oscillator

Electrical and Acoustical Parameter

Rated Voltage (Vpp)1.5Operating Voltage (Vpp)1-2Max. Current Consumtion* (mA)10Coil Resistance $(\Omega \pm 7.5\Omega)$ 50Sound Pressure Level* (dBA @ 10cm)min. 70Resonance Frequency (Hz)2.048

*Applying rated voltage (Resonant frequency, Square wave [50% duty cycle])

Mechanical, Environmental Parameter

Contact / Wire

Contact / Wire Plating

Tin plated brass

Operating Temperature (°C)

Storage Temperature (°C)

Housing Material

PPO

Housing Colour

Component Weight (g)

Remark:

Remark:

Approval

RoHs

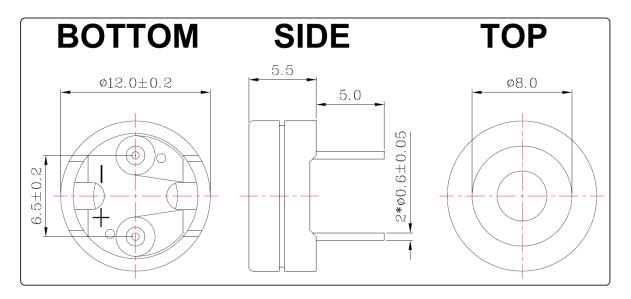
✓
REACH

Designed by	UB	03.11.2017	Copyright DIGISOUND-Electronic GmbH All specifications are subject to change without notice	Index: 01	Current date
Released by	KH	03.11.2017	171103.1BSO		12.12.2017
Changed by	UB	12.12.2017			Page 1 of 6



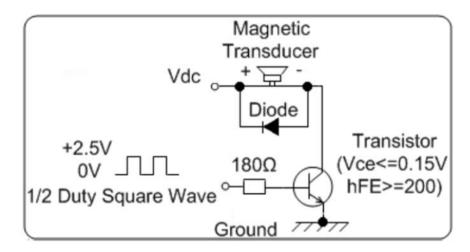
Drawing of Component

Unit: mm



Dimensions without tolerance ±0.5 mm

Recommended Circuit

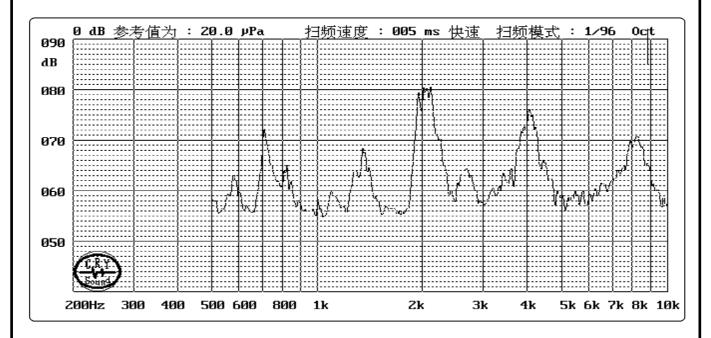


Designed by	UB	03.11.2017	Copyright DIGISOUND-Electronic GmbH All specifications are subject to change without notice		Current date	
Released by	КН	03.11.2017	171103.1BS0		12.12.2017	
Changed by	UB 12.12.2017 171 1		1/1103.163	5 0	Page 2 of 6	

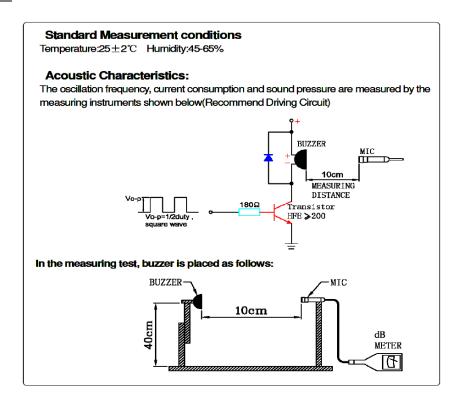
DIGISOUND®

Schematic Diagrams and Characteristics

Typical Frequency Response



Test Method



	Designed by	UB	03.11.2017	Copyright DIGISOUND-Electronic GmbH All specifications are subject to change without notice	Index: 01	
	Released by	KH	03.11.2017	171103.1BS0		12.12.2017
	Changed by	UB	12.12.2017			Page 3 of 6

F-DG105P

Reliability Test

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	After being placed in a chamber with $85\pm2^{\circ}$ C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: \pm 5dB.		
2	Low Temperature Test (Storage)	After being placed in a chamber with -30 ± 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ± 5dB.		
3	Humidity Test	After being placed in a chamber with 90-95% R.H. at 40 ± 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ± 5dB.		
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of: +70°C +25 -20°C -20°C -3hours Allowable variation of SPL after test: ± 5dB.		
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm. Allowable variation of SPL after test: ± 5dB.		
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ± 5 dB.		
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300 \pm 5^{\circ}$ C for 3 ± 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).		
8 Terminal Strength Pulling Test The force of 9.8N(1.0kg) is applied to each termina 10 seconds. No visible damage and cutting off.				

TEST CONDITION.

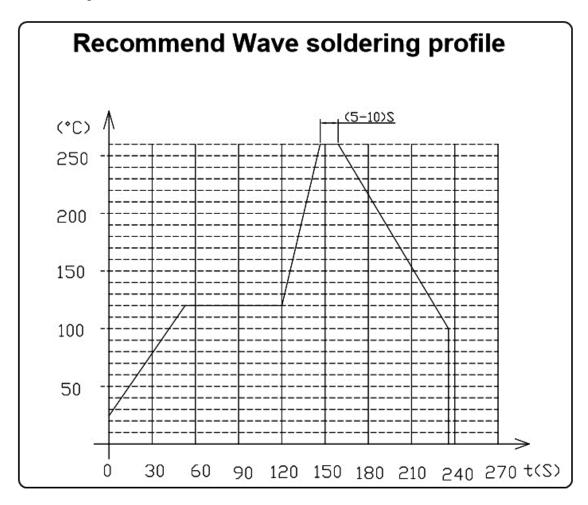
Standard Test Condition: a) Temperature: $+5 \sim +35^{\circ}$ C b) Humidity: 45-85% c) Pressure: 860-106ombar Judgment Test Condition: a) Temperature: $+25 \pm 2^{\circ}$ C b) Humidity: 60-70% c) Pressure: 860-106ombar

Designed by	UB	03.11.2017	Copyright DIGISOUND-Electronic GmbH All specifications are subject to change without notice	Index: 01			
Released by	KH	03.11.2017	171103.1BS0		12.12.2017		
Changed by	UB	12.12.2017	1/1103.163	JU	Page 4 of 6		



Solder Profile

a) Wave Soldering Profile



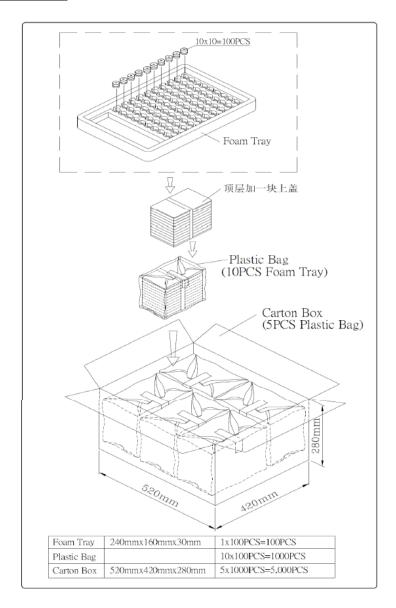
b) Manual Soldering Condition:

380 ± 20°C less than 2 seconds

	Designed by	UB	03.11.2017	Copyright DIGISOUND-Electronic GmbH All specifications are subject to change without notice	I INCEST OF	
	Released by	КН	03.11.2017	171103.1BS0		12.12.2017
	Changed by	UB	12.12.2017	1/1103.163	5 0	Page 5 of 6

DIGISOUND®

Packaging Information



Revision Table

Index Nr.	Reason - Procedure Change description	Date	Name	Comments
01	Update Reliability Test, Added: Soldering Profiles	12.12.2017	Uwe Bartsch	

	Designed by	UB	03.11.2017	Copyright DIGISOUND-Electronic GmbH All specifications are subject to change without notice	Index: 01	
	Released by	КН	03.11.2017	─ 171103.1BSO		12.12.2017
	Changed by	UB	12.12.2017			Page 6 of 6