

SPECIFICATIONS

PART NAME SMD-Electromagnetic Transducer

				ALTERNATION HISTORY			
Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
	JUL.04,2011		A	New Document	5	李小蓮	謝明福
₩1	NOV.18,2011	DG1111008	В	Change Sound Pressure Level	5		
※ 2	OCT.31.2016	DG1610002	С	Change the manual of silver printing machine spray yellow words.	5	劉來	献建康
					OB	0 PRO.	2INC.
						2016.11	. 30
					文	件发	行 章

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
С	OCT.25,2016	劉來	根建原	根建原

PART NAME SMD-Electromagnetic Transducer

2 OF 7

MODEL NO : OBO-50UP1

OBO Pro.2

Features: Drive Circuit Built-In type

Conformity RoHS Directive(2011/65/EU) Requests.

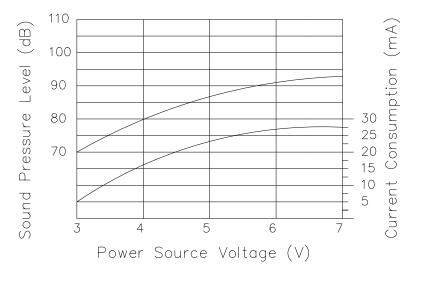
1. General Specifications:

Items	Spec.
Sound Pressure Level	82 dB min./10cm/DC 5V
Rated Voltage	DC 5V
Resonant Frequency	2700±300 Hz
Rated Current	30mA max./DC 5V
Operating Voltage	DC 4 to 7V
Housing Material	PPS(Black)
Pin Material	Plated Brass(Au)
Operating Temp. Range	-20° C to $+70^{\circ}$ C
Storage Temp. Range	-30°C to +85°C
Weight	1.5gms
Voltage vs Sound Pressure vs Current Consumption Curve	As Per Fig.1

Value applying rated voltage.(DC)

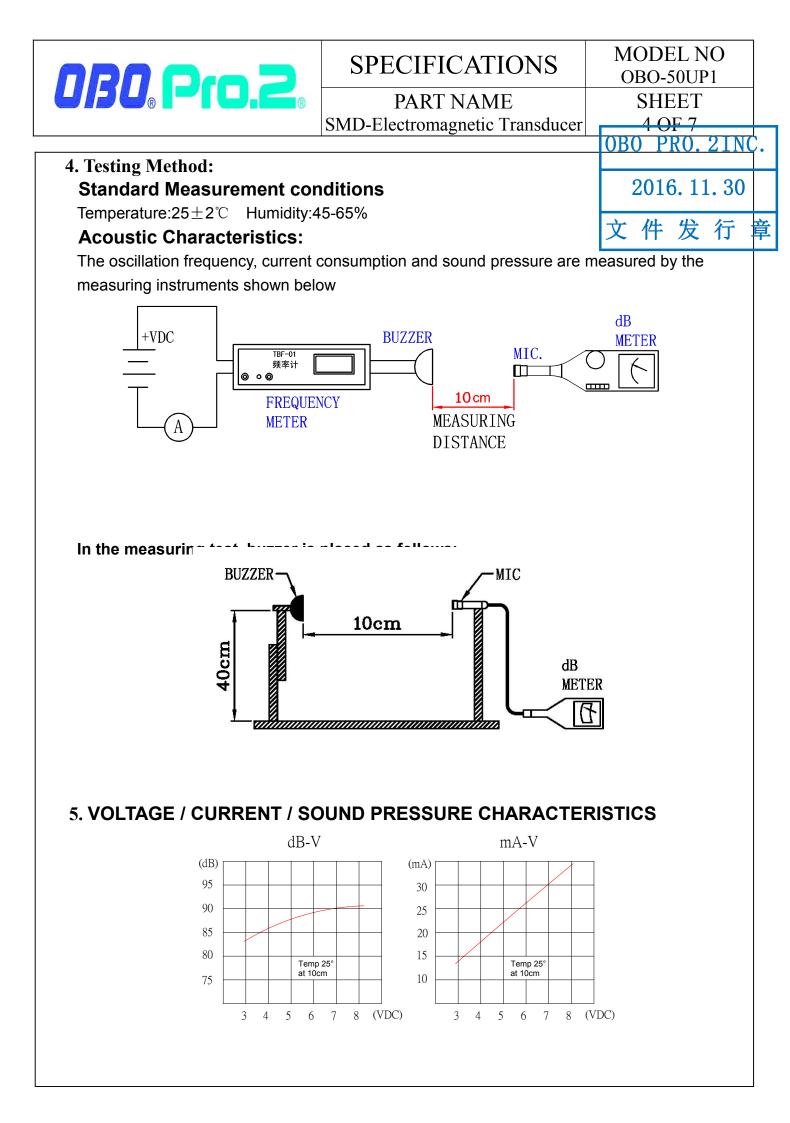
Fig.1:

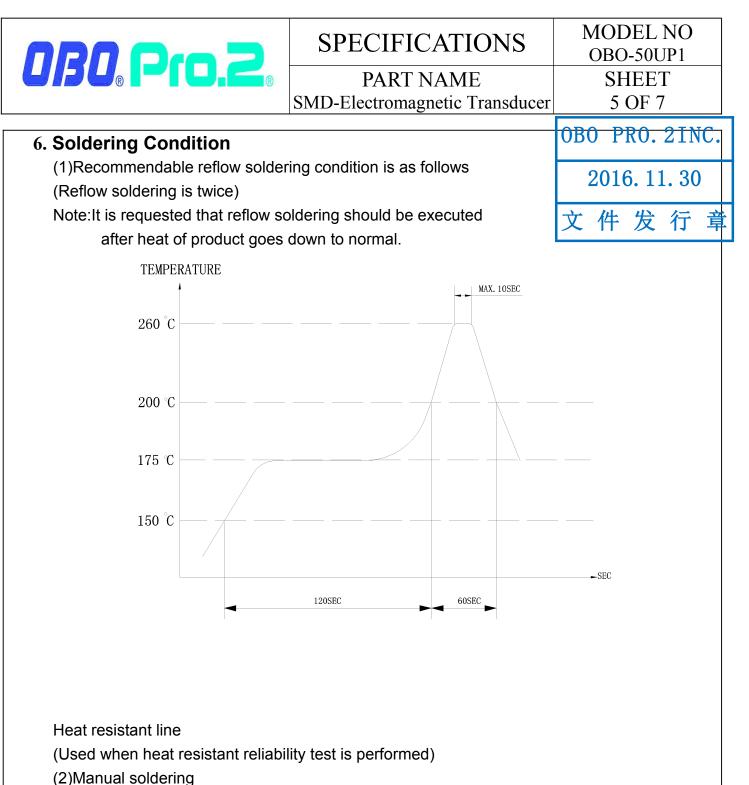
Measurement distance : 30cm. / Current consumption by GDM-8145 Sound level meter by IEC651 TYPE2 / DC power supply by GPC-3030D



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	SPECIFICATIONS	MODEL NO OBO-50UP1		
OBO Pro.2	PART NAME	SHEET		
	SMD-Electromagnetic Transducer	3 OF 7		
2. Standard Test Condition: 0B0 PR0. 2IN				
2.1 Standard State				
Ordinary Temperatu	e 15° C to 35° C	2016. 11. 30		
Ordinary Humidity	60% to 70%R.H.			
Ordinary air pressure	860 to 1060hPa	文件发行章		
2.2 Basic State				
Temperature	20 ±2°C			
Humidity	60% to 70%R.H			
Ordinary air pressure	860 to 1060hPa			
3. Mechanical Layout and Dimens 3.1 Dimendions Tolerance: ±0.3mm Unit: m % Change the manual of silver 9.6±0.3 (+) (+) (+) (+) (+) (+) (+) (+)		ords. OBO-50UP		
<u>1.5±0.1</u> (-)	0. 2±0. 05 SOUND POR			
	建议回焊区域尺	रि		
	2*1.5	2*1.7		





Manual soldering temperature 350° C within 5 sec.



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7. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
	High Tomporatura	After being placed in a chamber with 85±2°C for 96 hours and then		
1	High Temperature	being placed in normal condition for 2 hours.		
	Test (Storage)	Allowable variation of SPL after test: ±10dB.		
2	Low Temperature	After being Placed in a chamber with -30±2°C for 96 hours and then		
	Low Temperature Test (Storage)	being placed in normal condition for 2 hours.		
		Allowable variation of SPL after test: ±10dB.		
	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40±2°C for 96		
3		hours and then being placed in normal condition for 2 hours.		
		Allowable variation of SPL after test: ±10dB.		
		The part shall be subjected to 5 cycles. One cycle shall be consist of :		
		+70°C		
	Temperature Cycle Test			
4		+25°C +25°C		
		-20°C		
		0.5hr 0.5 0.25 0.5 0.5 0.25		
		0.5hr 0.5 0.25 0.5 0.5 0.5 0.5 0.5 3hours		
		Allowable variation of SPL after test: ±10dB.		
		Drop on a hard wood board of 4cm thick, any directions ,6 times,		
5	Drop Test	at the height of 75cm.		
		Allowable variation of SPL after test: ±10dB.		
		After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz		
6	Vibration Test	band of vibration frequency to each of 3 perpendicular directions for		
		2 hours .		
		Allowable variation of SPL after test: ±10dB.		
7	0.01.11-11.1	Lead terminals are immersed in rosin for 5 seconds and then		
	Solderability Test	immersed in solder bath of $+300\pm5^{\circ}$ C for 3 ± 1 seconds.		
		90% min. lead terminals shall be wet with solder		
	 	(Except the edge of terminals).		
	Terminal Strength	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for		
8	Pulling Test	10 seconds.		
	<u> </u>	No visible damage and cutting off.		

