

# **East Electronics**



# **Product Specification**

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http://www.east-elec.com

Product Name:	High-Output Alarm Annunciator
Part Number:	EFM-290EDQ
Version:	1.01
Date:	2017/10/10
Note:	

# Company passed ISO 9001 / ISO TS16949 / ISO 14001 Certifications

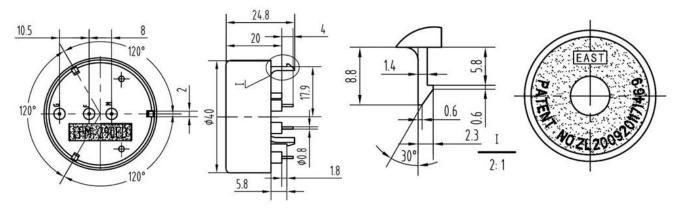
## **Revision History**

Rev.	Description	Author/Date	Checked By	Approver
1.01	Change the company name to East Electronics	SYSTEM 2017-10-10		
1.0	Released	吕文斌 2015-2-7	汤礼东	王建成

East Electronics 1/5

### 1. Part Number EFM-290EDQ

## 2. Dimension Drawing (Unit: mm)



The round tinned pin be used in this part

# 3.Specification

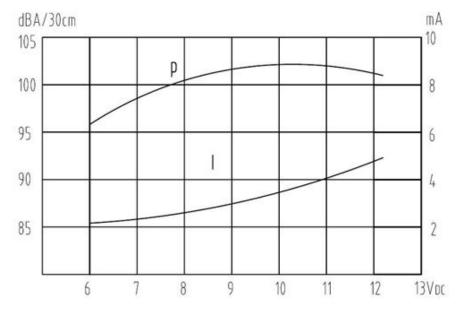
No.	Item	Specification
3-1	Min. Sound Pressure Level	90dB/9V <sub>DC</sub> /30cm
	Min. Sound Pressure Level	85dB/7.5V <sub>DC</sub> /300cm
3-2	Rate Voltage	9V <sub>DC</sub>
3-3	Operating Voltage	7~12V <sub>DC</sub>
3-4	Max. Consumption	10mA/9(7.5)V <sub>DC</sub>
3-5	Oscillating Frequency	3.4± 0.5kHz
3-6	Operating Temperature	-20~+70°C
3-7	Storage Temperature	-20~+70°C
3-8	Case Material /Color	ABS/Black
3-9	Pin Material/Plating	Cu/Sn
3-10	Weight	11.4g
3-11	Pin Strength	More than 10N

#### **NOTES:**

Test should be made under the conditions of room temperature  $(20\pm10^{\circ}\text{C})$ , normal humidity  $(60\pm20\%)$  and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature  $20\pm2^{\circ}\text{C}$ , relative humidity  $60\sim70\%$  and normal atmospheric pressure

East Electronics 2/5

# **4.**Typical Frequency Response Curve



**Note:** Distance 30 cm

# 5. Reliability Test

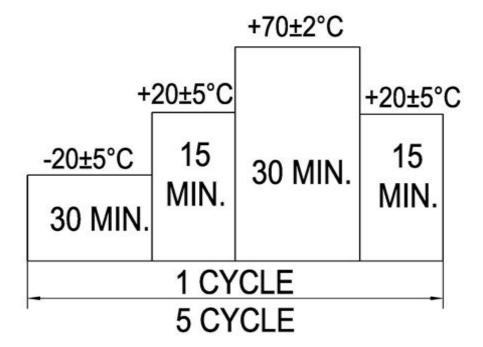
No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+70°C	Sound pressure level initial value ±10dB  Max. consumption value ±20%  Oscillating Frequency Value ±20%	
5-2	Storage in high temperature	Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours		
5-3	Storage in low temperature	Storage in -20°C test box 96 hours then exposed to the room temperature for 2 hours		
5-4	Life test in the room temperature	Operate the product continuously 5 seconds on 5 seconds off 300 hours at rated voltage		
5-5	Temperature / humidity cycle test	Storage in +40°C, 93±3%RH test box 96 hours then exposed to the room temperature for 2 hours		

East Electronics 3/5

5	5-6	Temperature (high and low) cycle test	Conduct the test for 5 cycles without applying power then expose to the room temperature for 2 hours.(See Figure 5-6)	
5	5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours	
5	5-8	Drop test	Drop a product naturally from the height of 700mm onto the surface of 100mm thick wooden board. Two directions: upper and side of the product are to be applied for this drop test once respectively	
5	5-9	Soldering heat resistance test	Dip the connecting pins in soldering at 260±5°C for 10±1 seconds	
5	-10	Test of soldering	Dip the connecting pins in soldering at 230±5°C for 3±0.5 seconds	Solder shall be attached around over 95% of the dipped portion

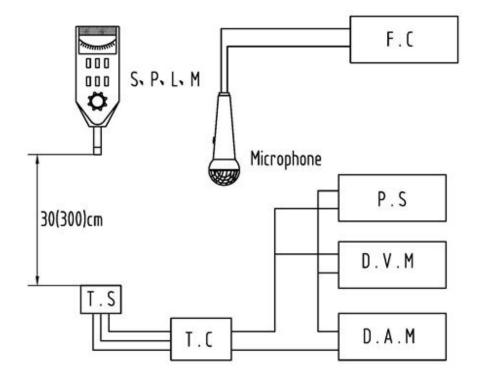
**NOTE**: The pins are allowed to deform after drop test.

Figure 5-6



East Electronics 4/5

# **6. Electrical Testing Method**



S.P.L.M Sound Pressure Level Meter

T.S Testing Sample

T.C Test Circuit

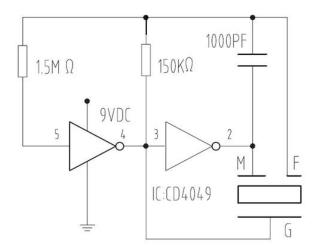
F.C Frequency Counter

P.S Power Supply

D.V.M DC Voltage Meter

D.A.M DC Ampere Meter

### T.C:



# 7. Packing Information

Packing:720 pcs per export carton Carton Size: 47× 30.5× 35 cm

G. Weight: 11.2 kgs N. Weight: 8.2 kgs

East Electronics 5/5