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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Product Specification

製品規格

108-79347 16 May 2007 Rev. A1

OZ-SS-148LM1リレー

1 機種・型式

TYPE·MODEL

1.1 適用P/N 3-1440002-2

OZ-SS-148LM1,200

1.2 外形寸法 製品図面による

OUTLINE As per Customer Drawing sheet

1.3 接点構成 SPST(1a)

CONTACT ARRANGEMENT

1.4 接点区分 銀合金

CONTACT MATERIAL Ag alloy

2 適合規格

SAFETY STANDARD

2.1 電気用品安全法 準拠品

Conform with Japan Product Safety Electrical Appliance & Materials law

2.2 海外安全規格 UL, CSA, VDE, SEMKO規格取得

FOREIGN STANDARD Recognized by UL, CSA, VDE ,SEMKO

3 コイル部

COIL RATING

3.1 定格電圧 DC48V

RATED VOLTAGE

3.2 コイル抵抗 4,400Ω(±10%)

COIL RESISTANCE

3.3 定格消費電力 約0.54W

NORMINAL OPERATING POWER about 0.54W

3.4 許容電圧 定格電圧の130%(但し、23℃において)

MAX. ALLOWABLE COIL VOLTAGE 130% of rated coil voltage (at 23°C)

4 開閉部

CONTACT SPECIFICATION

4.1 接点定格負荷の種類投入電流連続通電電流遮断電流CONTACT RATINGLoadInrush currentcurry currentCut off current

(A)AC240V $\cos \phi = 1$ 16A 16A 16A

4.2 定格通電電流 16A

RATED CONTACT CURRENT

4.3 接点許容電力 3,840VA

MAX. CONTACT CAPACITY

4.4 最小適用負荷 DC5V 100mA (参考値 reference)

MIN. APPLICABLE LOAD

5 性能

PERFORMANCE

5.1 接触抵抗 100mΩ以下(初期値)DC6V 1A 電圧降下法にて

CONTACT RESISTANCE $100m\Omega$ Max. (at initial stage) voltage drop test method 6VDC 1A

5.2 動作電圧 DC36.0V以下(但し、23℃において)

OPERATE VOLTAGE 36.0VDC Max. of rated voltage. (at 23°C)

5.3 復帰電圧 DC2.40V以上(但し、23°Cにおいて)

RELEASE VOLTAGE 2.40VDC Min. of rated voltage. (at 23°C)

5.4 動作時間 定格電圧操作にて20ms以下

OPERATE TIME 20ms Max. at rated voltage.

5.5 復帰時間 定格電圧操作にて 8ms以下

RELEASE TIME 8ms Max. at rated voltage

5.6 耐久性

Endurance

(1) 電気的耐久 接点定格(A)にて 10 万回以上 (開閉頻度 10 回/分)

ELECTRICALLY Contact rate A: 100,000ops. Min. (10 ops/minute)

(2) 機械的耐久 接点無負荷にて 1,000 万回以上(開閉頻度 300 回/分)

MECHANICALLY 10,000,000 ops. at no load. (300 ops./minute)

5.7 絶縁耐電圧(検知電流1mA)

DIELECTRIC STRENGHT (Leak current: 1mA)

(1) 同極接点間 1000VAC 1分間 又は 1200VAC 1 秒間 BETWEEN CONTACTS 1000VAC for 1 minute or 1200VAC for 1 second.

(2) コイル各接点間 5,000VAC 1分間 又は 6,000VAC 1秒間 BETWEEN COIL TO CONTACTS 5,000VAC for 1 minute or 6,000VAC for 1 second.

5.8 絶縁抵抗 500VDC にて、同極接点間・コイル接点間 1.000MΩ以上

INSULATION RESISTANCE Between contacts and coil to contact 1,000MΩ Min. at 500VDC

5.9 耐サージ電圧 コイル接点間 10kV(1.2/50 μ s) SURGE RESISTIVENESS Between coil to contact. 10kV (1.2/50μs)

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5.10 温度上昇

TEMPERATURE RISE

(1) コイル 接点定格電流を通電し、コイルに定格電圧110%を印加し、抵抗法

にて 60K以下

COIL 60K Max. by resistance method when the rated current is provided to contact

and 110% of rated voltage is supplied to relay coil.

(2) 接点 接点に 16A を通電し、コイルに定格電圧を印加し、温度計法にて

60K以下

CONTACT 60K Max. by temperature measuring method at Contact: 16A, Coil: rated voltage

5.11 耐振動性

VIBRATION

(1) 誤動作 復振幅 1.5mm、振動数 10~55Hz の可変振動を 3 方向各 5 分間

加え、1ms 以上の接点誤動作なきこと。

ERROR OPERATION No error operation than 1ms Max. when vibrate it from 3 directions for 5 minutes.

(Amplitude 1.5mm. 10 - 55Hz)

(2) 耐久 復振幅 1.5mm、振動数 10~55Hz の可変振動を 3 方向各 2 時間

加えた後、構造・特性に異常なきこと。

ENDURANCE No construction trouble when vibrate it from 3 directions for 2 hours.

(Amplitude 1.5mm. 10 - 55Hz)

5.12 耐衝擊性

SHOCK

(1) 誤動作 加速度 98m/s² 作用時間 11ms の衝撃を 3 方向に各 3 回

加えた時、1ms 以上の接点誤動作なきこと。

ERROR OPERATION No error operate by contact more than 1ms Max. when shocks it from 3 directions

3 times. (at Peak acceleration 98 m/S² Duration 11ms.)

(2) 耐久 加速度 980m/s² 作用時間 6ms の衝撃を 3 方向に各 3 回

加えた後、構造・特性に異常なきこと。

ENDURANCE No construction trouble when shocks is from 3 directions 3 times.

(at Peak acceleration 980 m/s² Duration 6ms.)

5.13 端子強度 各端子に押し込み・引っ張り 5N を 10 秒間加えて、外観

特性に異常なきこと。

TERMINAL STRENGTH No construction and exterior trouble when pull and push into any terminals by 5N

for 10sec.

5.14 耐熱性 85℃中に 240 時間放置し、その後 2 時間常温・常湿中に放置し、

構造・特性に異常なきこと。

THERMAL PROOF Not any trouble on construction and characteristic when leave in 85°C 240h

After that, leave it in standard condition for 2 hours.

5.15 耐寒性 -40℃中に 240 時間放置し、その後 2 時間常温・常湿中に放置し、

構造・特性に異常なきこと。

COLD PROOF Not any trouble on construction and characteristic when leave in -40°C 240h

After that, leave it in standard condition for 2 hours.

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温度 40℃ 湿度 90% RH 中に 24 時間放置し、その後 2 時間常 5.16 耐湿性

温·常湿中に放置し、絶縁抵抗 10MΩ以上構造·特性に異常

なきこと。

HUMIDITY PROOF Insulation resistance $10M\Omega$ Min. Not any troubles on construction and

characteristic when leave in 40°C 90% 24h. After that, leave it in

standard condition for 2 hours.

5.17 熱衝擊性 高温(85℃) 0.5 時間、低温 (-40℃) 0.5 時間を 1 サイクルとして

100 サイクル繰り返した後、常温に 2 時間放置した後、構造・特性

に異常なきこと。

THERMAL SHOCK Not any troubles on construction and characteristic when leave it in -40°C and 85°C

temp. room for 0.5 h each. That is one cycle. After 100 cycles has done, leave it on

standard condition for 2 hours.

5.18 半田耐熱性 350±5℃の溶融半田に3秒間又は、260±5℃の溶液半田に

10 秒間端子を浸漬し構造・特性に異常なきこと。

SOLDERING THERMAL Not any troubles on construction and characteristic. When dipped into soldering

bath 350±5°C 3sec. or 260±5°C 10sec.

260°C 5 秒間にて正常に付くこと。 5.19 半田付け性

SOLDERABILITY Not any problems solder dipped at 260°C 5 sec.

標準試験状態

STANDARDS TEST CONDITION

6.1 温度 23±5°C

TEMPERATURE

6.2 湿度 60±10%RH

HUMIDITY

6.3 測定条件 端子を下とする方向を標準とする。

DIRECTON OF MEASUREMENT Terminals down position is standard position.

使用条件 7

OPERATING CONDITION

7.1 温度 -30~70℃(但し、氷結・結露のないこと)

TEMPERATURE (On conditions without freezing and dew condensation)

Terminal down position is standard position

7.2 湿度 20~85%RH

HUMIDITY

7.3 取付け方向 端子を下とする方向を標準とする。 MOUNTING DIRECTION

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8 保管条件

STORAGE CONDITION

8.1 温度 -30~70℃(但し、氷結・結露のないこと)

TEMPERATURE (On conditions without freezing and dew condensation)

8.2 湿度 20~85%RH

HUMIDITY

8.3 環境

ENVIRONMENT

(1) 硫化水素ガスなどの腐食ガス及び塩風が製品に当たらないところ。
Store in locations where the product or container is not expose to corrosive gas such as hydrogen sulfide gas

or salty air.

(2) 目視で確認できる塵埃がないところ。

Store in location where no visible dust exists.

(3) 直射日光に当たらないところ。

Store in location not subject to direct sunlight.

9 その他

other

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10 変更履歴

Change Profile

A1	Logo Revise		May 16, 2007
Α	Standard Temp.20→23°C		July 20, 2006
0	New Issue	EC-FK00-0099-04	June 17, 2004
LTR	REVISION RECORD	ECN	DATE

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