

CONNECTOR
[查询"101240FHACVM432ZA"供应商](#)

SPECIFICATION

PART NO. 101240FHACVM432ZADESCRIPTION. RJ45 2x4 PORT W/LED .W/TRANSFORMER

CUSTOMER. _____

REV.: P0

REV. DATE : 2006 / Aug / 16

	APPROVED	CHECKED	PREPARED
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1 P/N SPECIFICATION

SUYIN P/N: 101 240 F H AC V M4 32 ZA
A B C D E

A. Transformer Speed: 10/100/1000 Base-T
LED Polarity: Normal

B. Schematic: Refers to section 5.1

C. LED Color Code:

w/o LED: 0		RIGHT LED					
		YELLOW	GREEN	ORANGE	G/O	G/Y	O/G
LEFT LED	YELLOW	1	7	D	K	N	R
	GREEN	2	8	E	L	P	S
	ORANGE	3	9	F	M	Q	T
	G/O	4	A	G	U		
	G/Y	5	B	H		V	
	O/G	6	C	J			W

D. RJ Contact Plating:

M2: Gold Flash selected Gold plating over 50 u" min. Nickel
M3: 10u" selected Gold plating over 50 u" min. Nickel
M4: 15u" selected Gold plating over 50 u" min. Nickel
M5: 30u" selected Gold plating over 50 u" min. Nickel
M6: 50u" selected Gold plating over 50 u" min. Nickel.

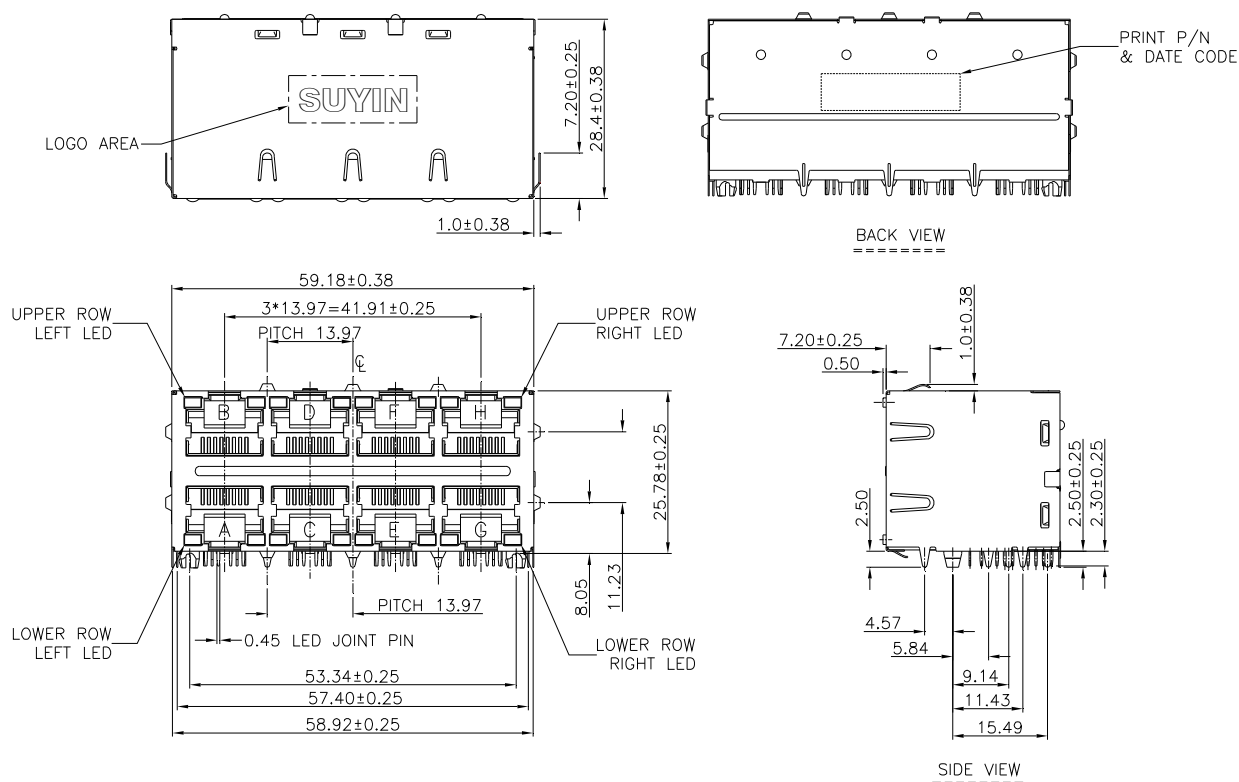
E. Mechanical Series: Refers to section 2.1~2.2

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2 MECHANICAL DIMENSIONS

2-1 Dimensions

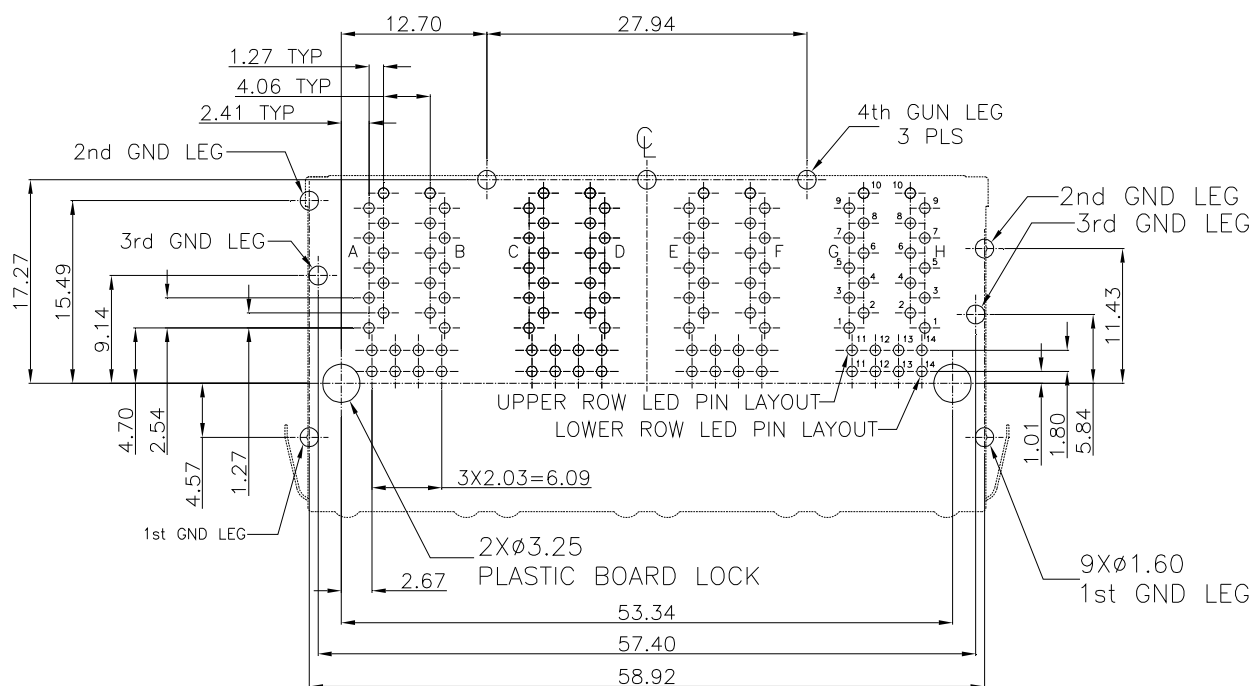


General Tolerance : 0~10mm: ± 0.10
10~30mm: ± 0.13
30~ mm: ± 0.30

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2-2 PCB Layout

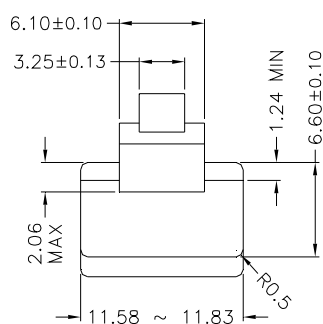


RECOMMENDED PCB LAYOUT COMPONENT SIDE
ALL DIMENSION TOLERANCE ARE ± 0.05 UNLESS
OTHERWISE SPECIFIED

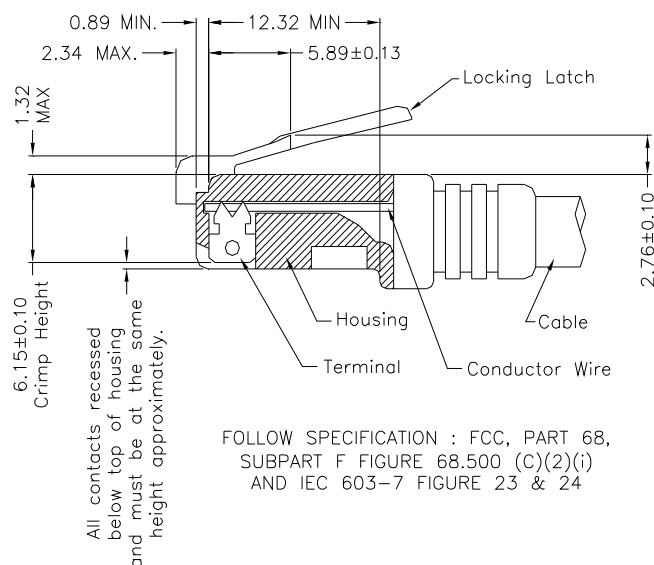
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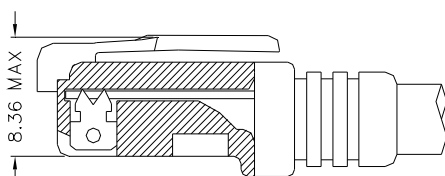
3 RECOMMEND RJ PLUG SPECIFICATION



- * There must be no damage to housing or locking latch. There must be no nicks or cuts in cable.
- * Durability : 750 cycles generally



FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(i) AND IEC 603-7 FIGURE 23 & 24



FOLLOW SPECIFICATION : FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(ii)

SPECIFICATION

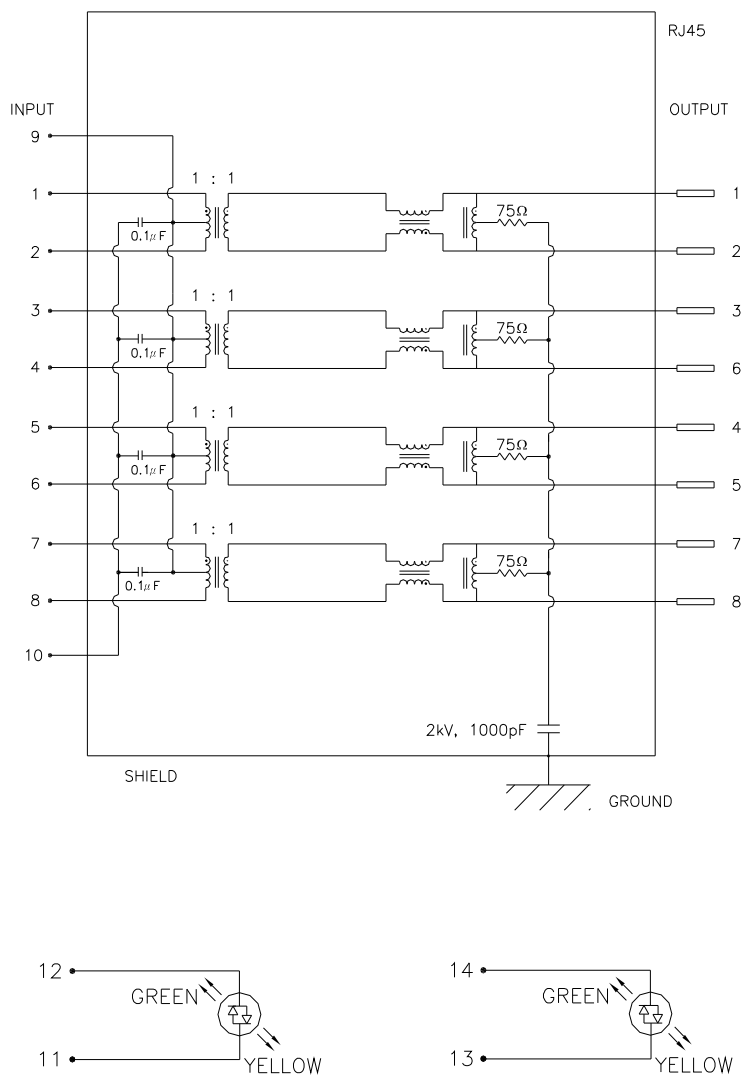
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4 MATERIAL SPECIFICATION	
4-1 RoHS Compliance per EU Directive 2002/95/EC	
4-2 Plastic Housings:	
A. Main Housing: Nylon 9T, UL 94V-0, Black	
B. RJ Contact Insert: PBT, UL94V-0, Black	
C. RJ Contact Housing: Nylon9T, UL94V-0, Black	
D. Internal Module Cover: PBT, UL94V-0, Black	
E. Transformer Housing: Nylon 9T, UL94V-0, Black	
F. Solder Pin Spacer: PBT, UL94V-0, Black	
G. LED Light Pipe: PC, UL 94V-0, Transparent	
4-3 Terminals:	
A. RJ Contacts: Phosphor Bronze	
B. RJ Solder Pins: Brass	
C. LED Solder Pins: Brass	
D. Transformer Housing Solder Pins: Brass	
4-4 Shields:	
A. Front and Back Shield: Stainless Steel	
4-5 Plating:	
A. RJ Contact: As P/N specified	
B. RJ Solder Pins: 100u" min. Matte Tin over 50u" Nickel under-plating	
C. LED Solder Pins: 100u" min. Tin over 50u" Nickel under-plating	
D. Transformer Housing Solder Pins: 100u" min. Matte Tin over 50u" Nickel under-plating	
E. Shield Grounding Legs: Pre-soldering, Sn/ Ag/ Cu (96.5/ 3/ 0.5)	
4-6 PCB: FR-4, Four Layer PCB	
4-7 Internal Solder Joints: Sn/ Ag/ Cu (96.5/ 3/ 0.5)	

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5 ELECTRICAL CHARACTERISTICS

5-1 Schematic



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5-2 Transmitter & Receiver Filter:

Insertion Loss (dB MAX)	Return Loss at 100Ω (dB MIN)			
1~125MHz	1~30MHz	30~60MHz	60~80MHz	80~100MHz
-1.2	-18	-1.6	-12	-10

5-3 Common Mode Rejection @ 1~100 MHz: -30dB MIN

5-4 Cross Talk @ 1~100 MHz: -25dB MIN

5-5 Inductance @ 100KHz/ 0.1V, 8mA DC BIAS: 350μH MIN

5-6 HiPot Test: 1500Vrms, 60sec

5-7 LED:

Forward Voltage (V) @ 20mA	
Typical	MAX
2.2	2.6

6 OPERATING & TEST REQUIRMENTS

Product is designed to meet electrical, mechanical and environmental performance requirements specified below. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified

6-1 Operating Temperature Range: 0°C TO +70°C

6-2 Storage Temperature: -40°C to 85°C

6-3 Ratings:

1. Insulation Resistance: 500M Ohm (MIN)
2. Dielectric Withstanding Voltage: 1000 VAC

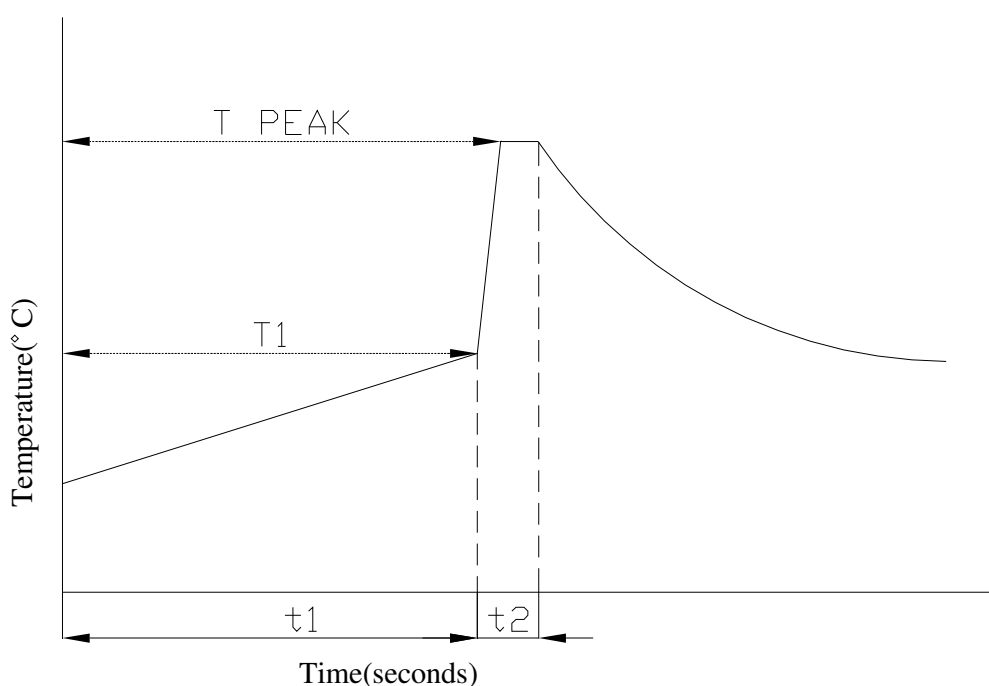
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7 STORAGE REQUIRMENTS

All products shall be packaged against any physical damage and corrosion during shipment or in storage.

8 RECOMMEND WAVE SOLDERING PROFILE



PARAMETER	REFERENCE	LEAD FREE SPECIFICATION
PREHEAT TEMPERATURE GRADIENT		+1~4℃/sec
PREHEAT TIME	t_1	2~3 MIN
PREHEAT TEMPERATURE	T_1	>100℃
SOLDER POT TEMPERATURE	T PEAK	260℃±5℃
DWELL TIME	t_2	3.5 SEC
PEAK BOARD TOP TEMPERATURE		190℃
COOLING TEMPERATURE GRADIENT		-6℃/SEC MAX.