

NO.	ECN NO.	DESCRIPTION	REV.	DRAW	DATE

NOTES:

1.ELECTRICAL:

- 1.1 VOLTAGE RATING : 150 VAC RMS.
- 1.2 CURRENT RATING : 1.5 AMP.
- 1.3 CONTACT RESISTANCE : 20 MILLIOHMS MAX.
- 1.4 INSULATION RESISTANCE 1000 MEGOHMS MIN @ 500 VDC.
- 1.5 DIELECTRIC STRENGTH : 1000 V DC OR AC PEAK
: @ 0.5mA 50 Hz OR 60 Hz A MINUTE

1.6 CATEGORY 5 CHARACTERISTIC:

Frequency	Near-End Cross Talk dB, MIN.	Return Loss dB, MIN.	Attenuation dB, MAX.
1.0 MHZ	65	30	0.1
4.0 MHZ	65	30	0.1
8.0 MHZ	64.9	30	0.1
10.0 MHZ	63	30	0.1
16.0 MHZ	58.9	30	0.2
20.0 MHZ	57	30	0.2
25.0 MHZ	55	30	0.2
31.25 MHZ	53.1	30	0.2
62.5 MHZ	47.1	24.1	0.3
100.0 MHZ	43	20	0.4

2.MATERIAL

- 2.1 HOUSING&INSERT MATERIAL : PA46+30%GF. COLOR BLACK.
- 2.2 SHIELD : BRASS T=0.3 PLATING NICKEL 30u"~80u",WITH TIN-DIP ON SOLDDR TABS.
- 2.3 CONTACT MATERIAL : PHOSPHOR BRONZE T=0.3mm.
- 2.4 PLATING 1: CONTACT AREA- GOLD 30u" PLATING OVER NICKEL 50u" MIN.
2: TAILS PLATING MATTE TIN 150u"MIN OVER NICKEL 50u" MIN.

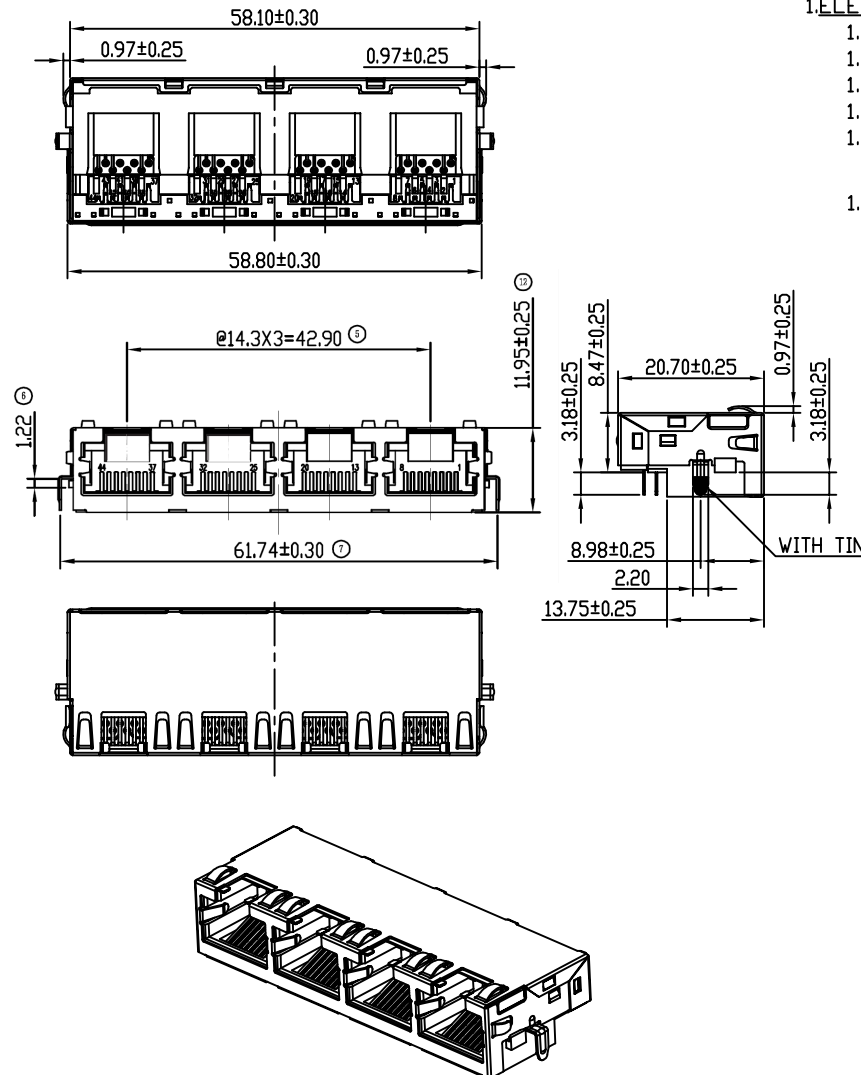
3.MECHANICAL:

- 3.1 DURABILITY : 750 CYCLES MIN.
- 3.2 MATING/UNMATING FORCE : 30N Max.
- 3.3 RETENTION STRENGTH : 50N FOR 60S±5S.

4.ENVIRONMENTAL

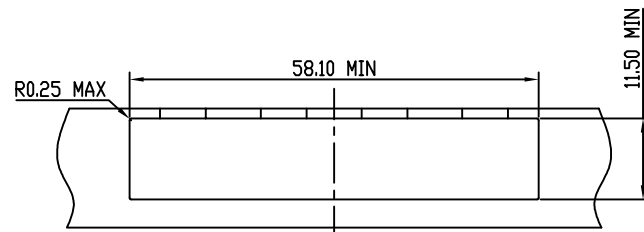
- 4.1 STORAGE :-40°C TO +85°C RELATIVE HUMIDITY<80%
- 4.2 OPERATION :-40°C TO +85°C.
- 4.3 STORAGE TIME LIMIT:12 MONTHS
- 5.WAVE SOLDERING TEMPERATURE: 260°C 10 SECONDS.

MATES WITH MODULAR PLUG CONFORMING TO IEC-60603 & TIA-1096

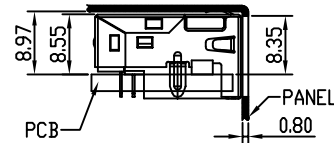


TOLERANCE				 APPS Electronics Limited		
.X	±0.25	X.°	±2°			
.XX	±0.15	.X°	±1°			
.XXX	±0.075					
SCALE	1:1	PROJ.		DESIGN	TITLE	RJ45 1*4 Connector CAT5e
SHEET	1/2	SIZE	A4	CHECKED	ITEM NO.	AE-RJC301Z01
UNIT	mm	REV.	A	APPROVE	DWG NO.	

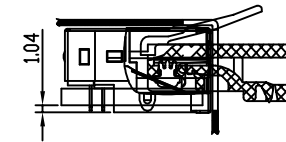
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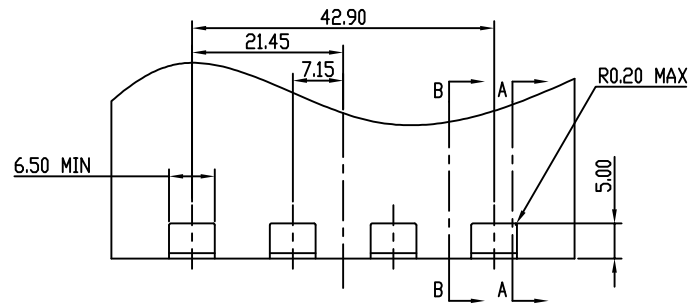
FRONT VIEW



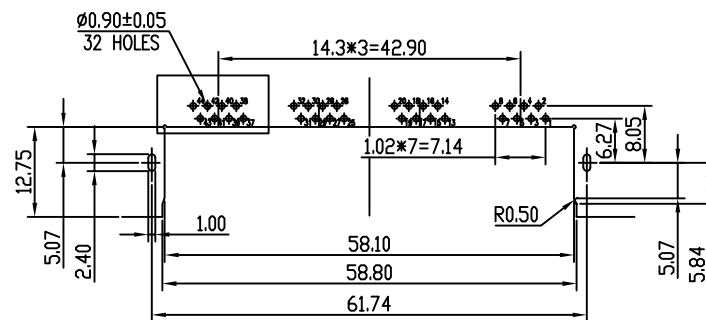
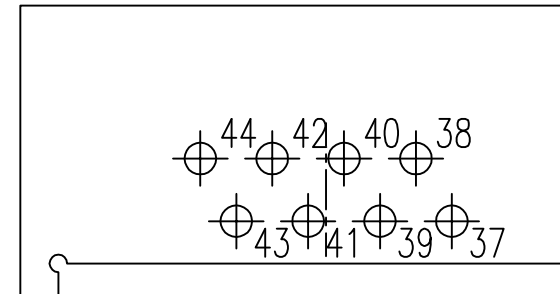
B-B
SIDE VIEW SHOWING
WITH PANEL AND PCB



A-A
SIDE VIEW SHOWING
WITH PLUG



RECOMMENDED PANEL LAYOUT



RECOMMENDED PC BOARD LAYOUT
AS VIEWED FROM COMPONENT SIDE
TOLERANCE $\pm 0.05\text{mm}$

TOLERANCE .X ± 0.25 X.° $\pm 2^\circ$.XX ± 0.15 .X° $\pm 1^\circ$.XXX ± 0.075				 APPS Electronics Limited		
SCALE	1:1	PROJ.		DESIGN	TITLE	RJ45 1*4 Connector CAT5e
SHEET	2/2	SIZE	A4	CHECKED	ITEM NO.	AE-RJC301Z01
UNIT	mm	REV.	A	APPROVE	DWG NO.	