

Excellent Integrated System Limited

Stocking Distributor

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[Bel Fuse Inc.](#)
[1761889-3](#)

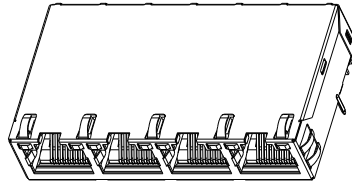
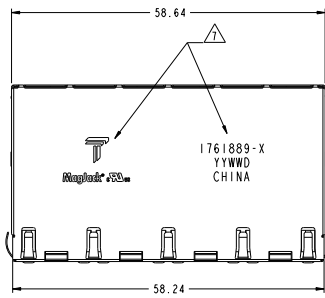
For any questions, you can email us directly:

sales@integrated-circuit.com

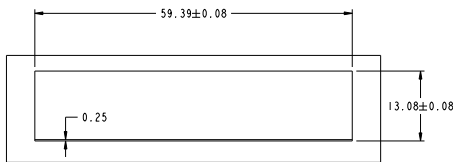
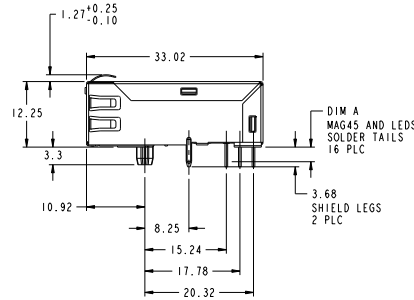
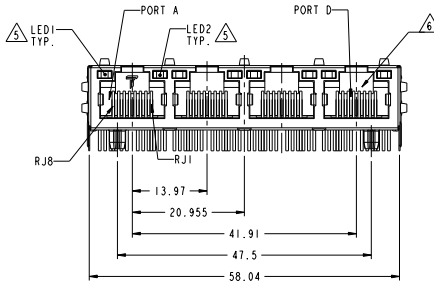
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PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS:
5736910 5939955 6425781 6428361 6554638 6840817 7123117
7429195 7717749 7808751 8217391 8149050 7924130

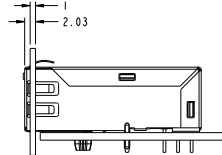
REVISIONS				
P	TR	DESCRIPTION	DATE	APPD
G		LOGO CHANGE	01APR2013	PP KZ
H		COMPANY LOGO CHANGE AND EC-1409035	08JAN2015	TYR TYH



SCALE 2:1



SUGGESTED PANEL CUTOUT



CONNECTOR ASSEMBLED TO PANEL AND PCB
SCALE 2:1

1. MATERIALS
HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
SHIELD: BRASS, 0.20mm THICK, PREPLATED WITH MIN 0.76um SEMI-BRIGHT NICKEL
POST DIPPED WITH 2.54um MIN SAC SOLDER AT GROUND PINS.
CONTACT: PHOSPHOR BRONZE, 0.46mm X 0.25mm
WITH 1.27um MIN OVERALL NICKEL UNDERPLATE AND
SELECTIVE 1.27um MIN GOLD PLATING AT MATING INTERFACE
SOLDER TAIL: COPPER CLADDED STEEL, 0.50mm SQUARE
PLATED WITH 2.54um MIN MATTE TIN
LIGHT PIPE: POLYCARBON, TRANSPARENT, RATING UL 94V-0
LED: DIFFUSED EPOXY LENS, 0.50mm SQUARE CARBON STEEL WIREFRAME LEADS
PREPLATED WITH 2.03um MIN SILVER OVER 1.02um MIN NICKEL UNDERPLATE
OVER 1.02um MIN COPPER UNDERPLATE; POST PLATED WITH 2.54um MIN MATTE TIN.
TIP TIN DIPPING

- △ MAGNETICS
- APPLICATION: 10/100/1000 BASE-T
- IMPEDANCE: 100 OHMS
- TURNS RATIO (CHIP: CABLE): 1:1 ALL FOUR PAIRS
- OPEN CIRCUIT INDUCTANCE (OCL): 350nH MIN @100kHz, 0.1VRMS,
0mA DC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
- ALL FOUR PAIRS BI-DIRECTIONAL
- PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
12-20LOG(F/80)dB MIN FROM 40.1MHz TO 100MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20LOG(F/50)dB MIN FROM 40.1MHz TO 100MHz
COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
- ISOLATION VOLTAGE:
1761889-1/-2/-3, 2-1761889-1/-2/-3 COMPLY WITH IEEE802.3 2002,
PARA 40.6.1.1, ITEM b.
1761889-8, 6-1761889-8, 8-1761889-8 COMPLY WITH IEEE802.3 2002,
PARA 40.6.1.1, ITEM a AND b.

- △ THE MAGNETIC CIRCUIT ON ALL FOUR CHANNELS IS SYMMETRICAL AND SUPPORTS AUTO-MDIX OPERATION.

4. OPERATING TEMPERATURE: 0°C - 70°C

- △ LEDS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
LED COLOR: DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): ORANGE 610 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. @ IF=20mA

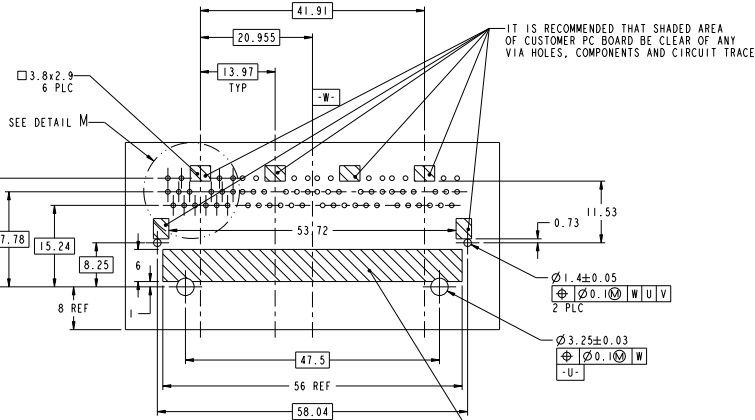
- △ RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.

- △ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN,
AGENCY APPROVAL MARKING IN APPROPRIATE LOCATION SHOWN DATE CODE
YY IS YEAR, MM IS MONTH, DD IS DAY OF WEEK WITH SUNDAY=1

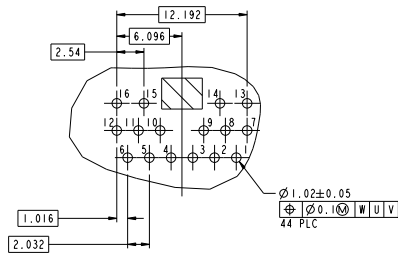
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS, PEAK WAVE
SOLDERING TEMPERATURE IS 265°C, 10sec MAX.

3.18	GREEN	YELLOW	8-1761889-8
3.18	GREEN	GREEN/YELLOW	2-1761889-3
3.18	GREEN/ORANGE	YELLOW	2-1761889-2
3.18	GREEN	GREEN	2-1761889-1
2.74	GREEN	YELLOW	6-1761889-8
3.18	GREEN/YELLOW	GREEN	1761889-8
2.74	GREEN	GREEN/YELLOW	1761889-3
2.74	GREEN/ORANGE	YELLOW	1761889-2
2.74	GREEN	GREEN	1761889-1
DIM A		LED1	LED2
		PART NUMBER	

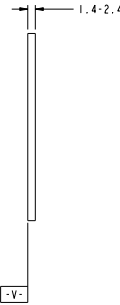
THIS DRAWING IS A CONTROLLED DOCUMENT.		DATE: 21JUN2005	BY: KEITH ZHU			
DRAWN BY: TERRY XIONG		DATE: 21JUN2005	BY: TERRY XIONG			
CHECKED BY: TERRY XIONG		DATE: 21JUN2005	BY: TERRY XIONG			
PRODUCT SPEC: 108-2100		APPLICATION SPEC: -				
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:				
0 PLC ±.25		1 PLC ±.25				
1 PLC ±.25		2 PLC ±.25				
2 PLC ±.25		3 PLC ±.25				
3 PLC ±.25		4 PLC ±.25				
4 PLC ±.25		5 PLC ±.25				
5 PLC ±.25		6 PLC ±.25				
6 PLC ±.25		7 PLC ±.25				
7 PLC ±.25		8 PLC ±.25				
8 PLC ±.25		9 PLC ±.25				
9 PLC ±.25		10 PLC ±.25				
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111 PLC ±.25		112 PLC ±.25				
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115 PLC ±.25		116 PLC ±.25				
116 PLC ±.25						



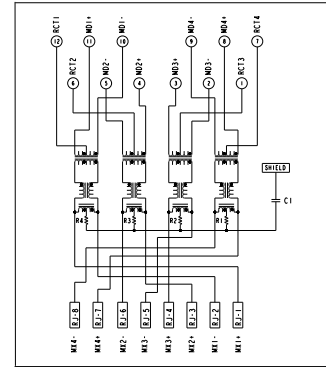
SUGGESTED PCB FOOTPRINT
COMPONENT SIDE
SCALE 2:1



DETAIL M
SCALE 4:1



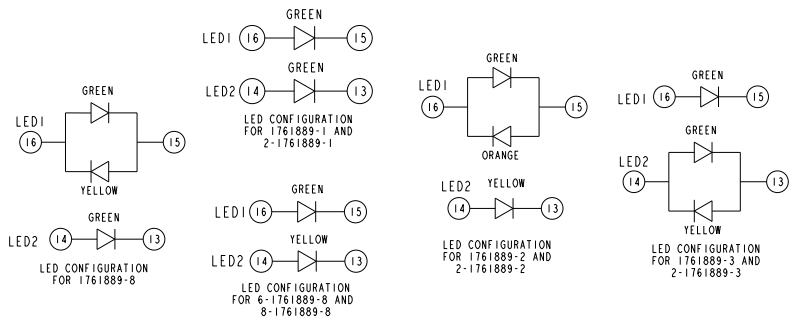
1G27 GIGABIT CIRCUIT



R1-R4=75 Ohms, 5%, 1/16W RESISTORS

C1=1000pF, 3kV CAPACITOR FOR 1761889-8, 6-1761889-8, 8-1761889-8 ONLY.

C1=1000pF, 2kV CAPACITOR FOR 1761889-11/-21-3 & 2-1761889-11/-21-3 ONLY.



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CHECKED	21 JUN 2005
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PRODUCT SPEC	GANG NON-POE
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