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LOC	REV	REVISIONS	DATE	BY	APPD
AA	00				
F	ECO-11-014530		01JUL2011	PP	LJ

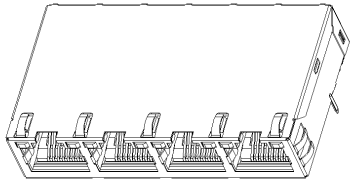
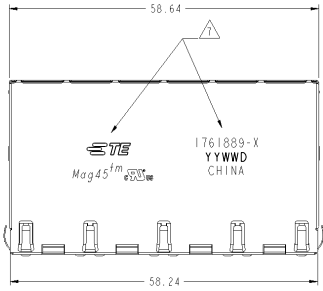
MATERIALS
 HOUSING: THERMOPLASTIC, BLACK, FLAMMABILITY RATING UL 94V-0
 SHIELD: BRASS, 0.20mm THICK, PREPLATED WITH MIN 0.76µm SEMI-BRIGHT NICKEL
 POST DIPPED WITH 2.54µm MIN SAC SOLDER AT GROUND PINS.
 CONTACT: PHOSPHOR BRONZE, 0.48mm X 0.25mm
 WITH 1.27µm MIN OVERALL NICKEL UNDERPLATE AND
 SELECTIVE 1.27µm MIN GOLD PLATING AT MATING INTERFACE
 SOLDER TAIL: COPPER CLADDED STEEL, 0.50mm SQUARE
 PLATED WITH 2.54µm MIN MATTE TIN
 LIGHT PIPE: POLYCARBON, TRANSPARENT, RATING UL 94V-0
 LED: DIFFUSED EPOXY LENS, 0.50mm SQUARE CARBON STEEL WIREFRAME LEADS
 PREPLATED WITH 2.03µm MIN SILVER OVER 1.02µm MIN NICKEL UNDERPLATE
 OVER 1.02µm MIN COPPER UNDERPLATE; POST PLATED WITH 2.54µm MIN MATTE TIN.

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.

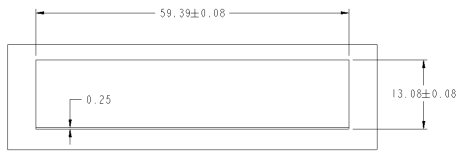
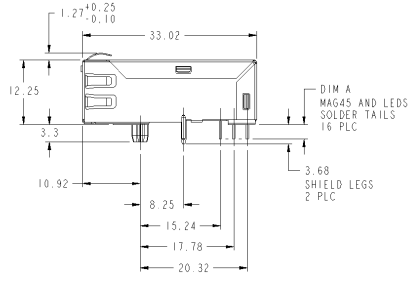
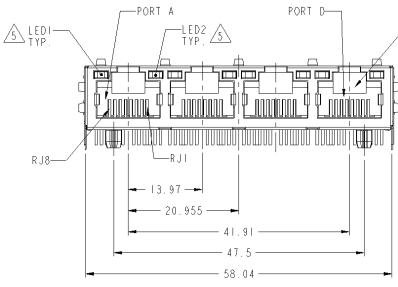
THE MAGNETIC CIRCUIT ON ALL FOUR CHANNELS IS SYMMETRICAL AND SUPPORTS
 AUTO-MIX OPERATION.
 OPERATING TEMPERATURE: 0°C - 70°C
 LEADS ARE DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.
 LED COLOR:
 DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): YELLOW 586 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
 DOMINANT WAVELENGTH (λD): ORANGE 610 nm TYP. at IF=20mA
 FORWARD VOLTAGE (VF): ORANGE 2.1V TYP. at IF=20mA

RJ45 CAVITY CONFORMS TO FCC RULES AND REGULATION PART 68 SUBPART F.
 TE CONNECTIVITY LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN, AGENCY APPROVAL
 MARKING LOGO LOCATED IN THE APPROXIMATE AREA SHOWN. DATE CODE YY IS YEAR, WW IS
 WORK WEEK, D IS DAY OF WEEK, WITH SUNDAY=1
 THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS. PEAK WAVE
 SOLDERING TEMPERATURE IS 265°C, 10sec MAX.

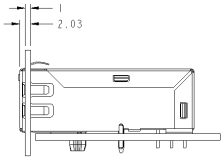
3.18	GREEN	YELLOW	8-1761889-8
3.18	GREEN	GREEN/YELLOW	2-1761889-3
3.18	GREEN/ORANGE	YELLOW	2-1761889-2
3.18	GREEN	GREEN	2-1761889-1
2.74	GREEN	YELLOW	6-1761889-8
3.18	GREEN/YELLOW	GREEN	1761889-8
2.74	GREEN	GREEN/YELLOW	1761889-3
2.74	GREEN/ORANGE	YELLOW	1761889-2
2.74	GREEN	GREEN	1761889-1
DIM A	LED1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



SCALE 2:1



SUGGESTED PANEL CUTOUT
 SCALE 2:1



CONNECTOR ASSEMBLED
 TO PANEL AND PCB
 SCALE 2:1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS	TOLERANCES UNLESS OTHERWISE SPECIFIED	DATE	BY
mm		11-Jun-05	KEITH ZHU
		1-Jun-05	CHM
		1-Jun-05	TEDDY YI LONG
		1-Jun-05	APRIL
			PRODUCT SPEC
			108-2100
			APPLICATION SPEC

MATERIAL:

WEIGHT: -

CUSTOMER DRAWING

TE Connectivity

1X4 MAG(45) MODULAR JACK
 LOW PROFILE, 1G27 GIGABIT CIRCUIT
 SHIELDED, WITH LEDS

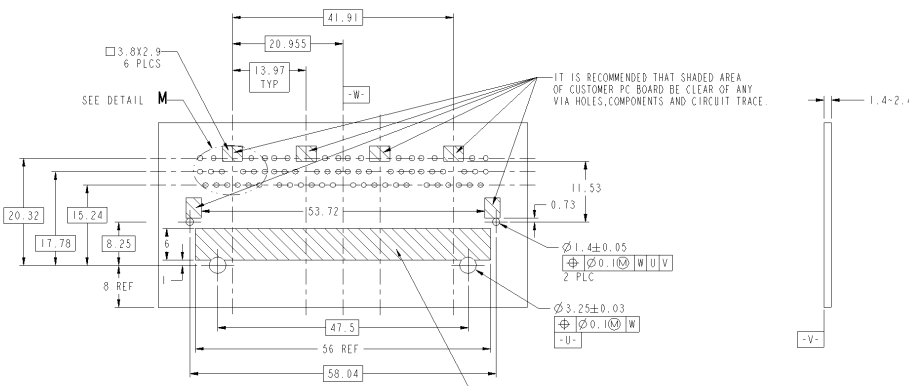
SIZE: A2 CASE CODE: 00779 DRAWING NO: 1761889

RESTRICTED TO: -

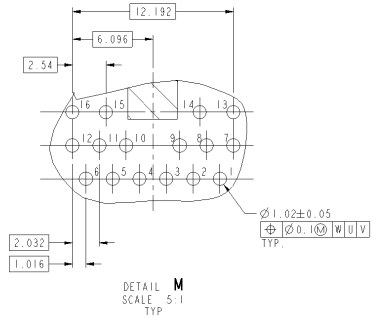
SCALE: NTS SHEET 1 OF 2 REV: F

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LOC	QTY	REV	DESCRIPTION	DATE	BY	APP
AA	00	P	SEE SHEET 1	-	-	-

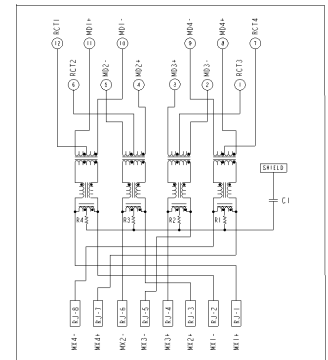


SUGGESTED PCB FOOTPRINT COMPONENT SIDE SCALE 2:1
 IT IS RECOMMENDED THAT SHADED AREA OF CUSTOMER PC BOARD BE CLEAR OF ANY VIA HOLES, COMPONENTS, GROUND COPPER AND CIRCUIT TRACE.

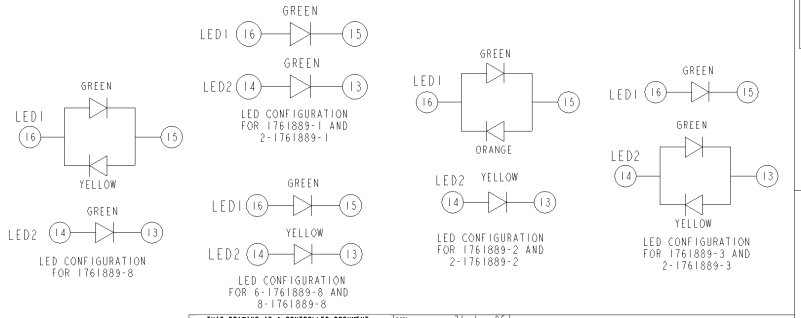


DETAIL M SCALE 5:1 TYP

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 1761889-1/1-2/1-3 & 2-1761889-1/1-2/1-3 ONLY.



DIMENSIONS		DRAWN		REVISED		NAME	
mm		mm		mm		mm	
0 PLC	±0.25	0	1	1	1	1	1
1 PLC	±0.25	1	1	1	1	1	1
2 PLC	±0.25	2	1	1	1	1	1
3 PLC	±0.25	3	1	1	1	1	1
4 PLC	±0.25	4	1	1	1	1	1
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99 PLC	±0.25	99	1	1	1	1	1
100 PLC	±0.25	100	1	1	1	1	1