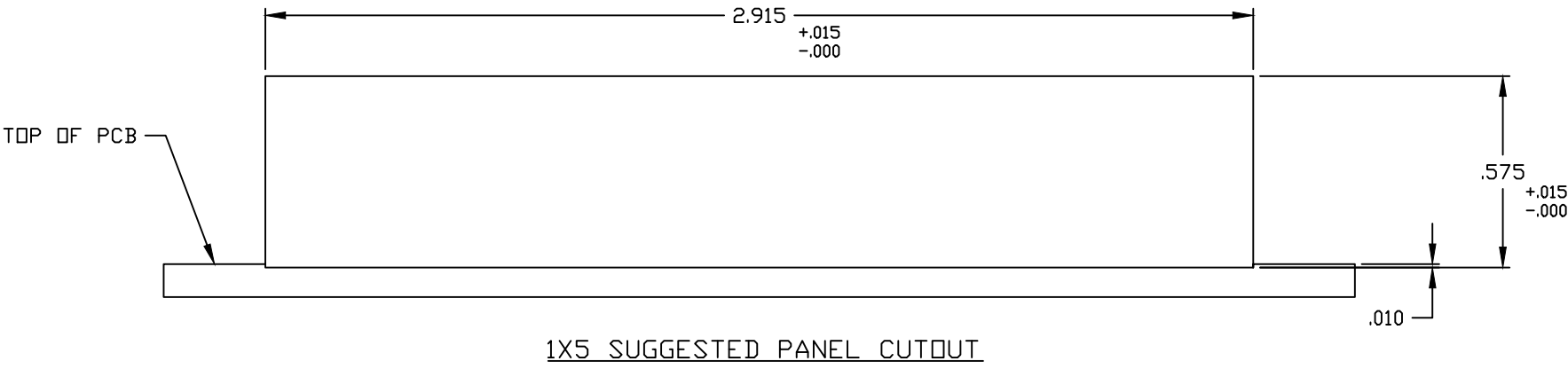
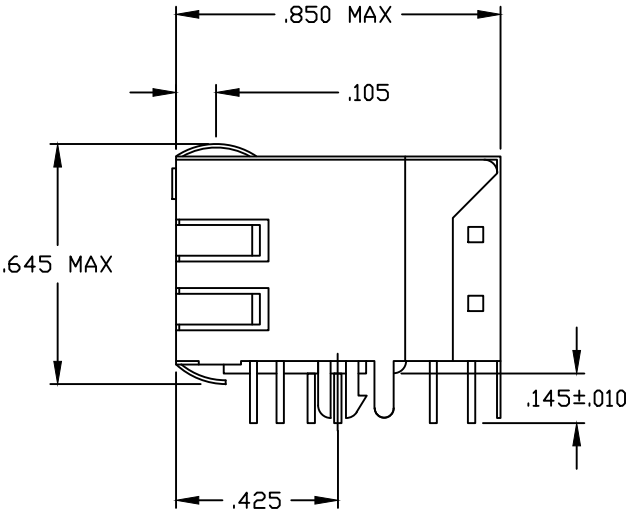
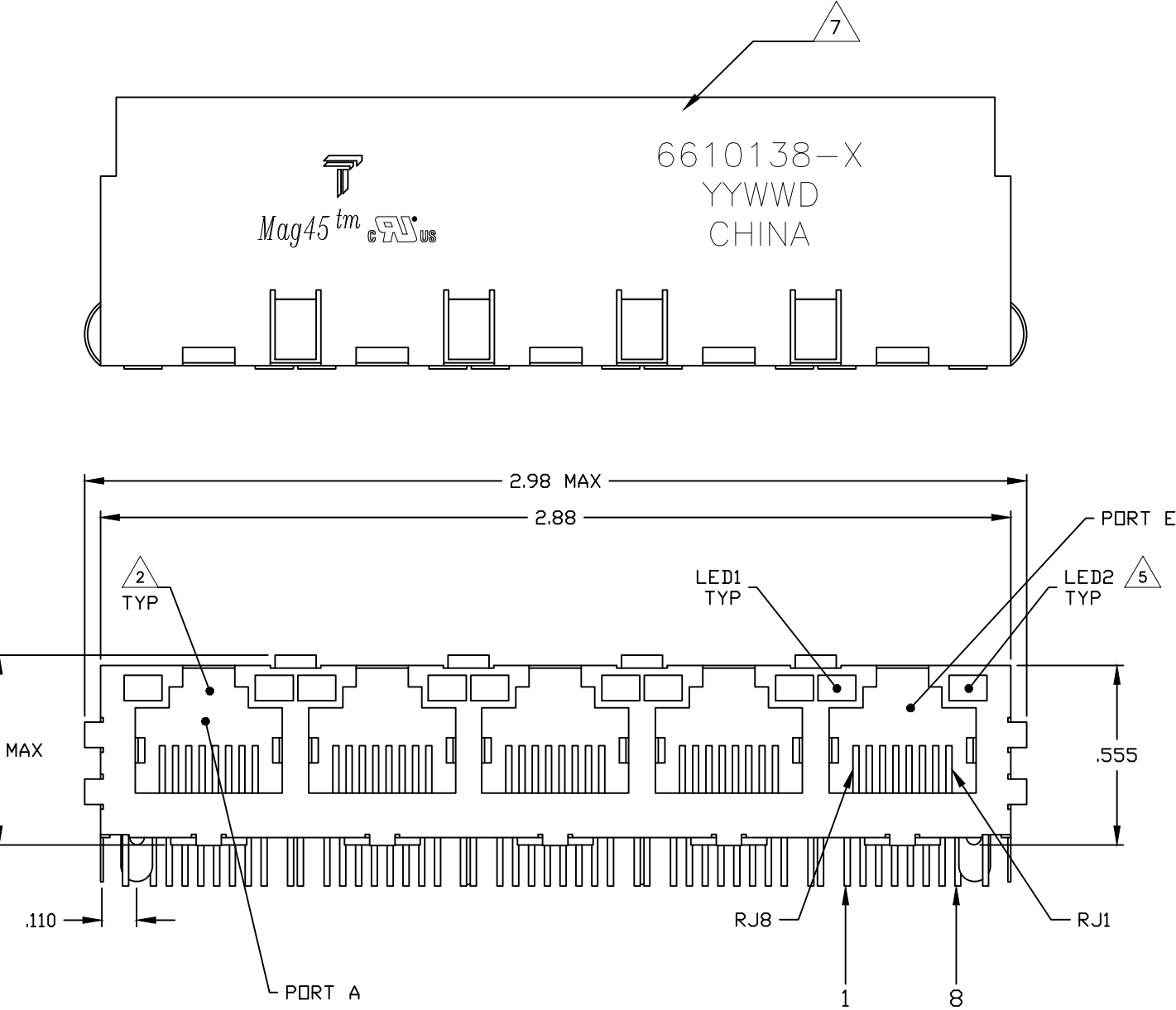


MECHANICAL:



1. MATERIALS:
-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
-SHIELD - 0.010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL. SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
-MOD JACK CONTACTS - 0.0157" X 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE. SOLDER TAILS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
-LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, 0.020" X 0.020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80μINCH SILVER OVER 40μINCH NICKEL UNDERPLATE OVER 40μINCH COPPER UNDERPLATE. POST-PLATED WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.
2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.
3. MAGNETICS
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP: CABLE): TX = 1:1, RX = 1:1
-OPEN CIRCUIT INDUCTANCE (OCL): 350μH MIN @100kHz, 0.1VRMS, 8mADC BIAS FROM 0°C TO 70°C, TX AND RX
-PERFORMANCE @ 25°C:
INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 30MHz
18-20LOG(f/30)dB MIN FROM 30.1MHz TO 60MHz
12dB MIN FROM 60.1MHz TO 80MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
33-20xLOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
-ISOLATION VOLTAGE: 2250VDC (MAX) FOR 60 SECONDS WITH A RISE TIME OF 500V/SEC AND WITH ALL PORTS CONNECTED.
4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.
5. THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS. IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.LED COLOR:
DOMINANT WAVELENGTH (ID): GREEN 568 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): GREEN 2.2V TYP. at IF=20mA
DOMINANT WAVELENGTH (ID): YELLOW 588 nm TYP. at IF=20mA
FORWARD VOLTAGE (VF): YELLOW 2.1V TYP. at IF=20mA
IF THE LED WITH 250 OHM RESISTORS,LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.LED COLOR : DOMINANT WAVELENGTH (ID): GREEN 568 nm TYP. At VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. at VF=5V
DOMINANT WAVELENGTH (ID): YELLOW 588 nm TYP. At VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP. at VF=5V
6. INDICATED CONNECTIONS ARE FOR HUB CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL AND SUPPORT AUTO-MDI/MDIX.
7. TRP CONNECTOR LOGO, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.
8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,PEAK WAVE SOLDERING TEMPERATURE IS 265°C MAX, 10 SECONDS MAX.

NO	GREEN/YELLOW	GREEN/YELLOW	5-6610138-6
YES	GREEN	YELLOW	5-6610138-1
LED RESISTORS	LED1	LED2	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES

0	PLC	± .-
1	PLC	± .-
2	PLC	± .010
3	PLC	± .005
4	PLC	± .-
5	PLC	± .-

TO TOLERANCES UNLESS OTHERWISE SPECIFIED:

0	PLC	± .-
1	PLC	± .-
2	PLC	± .010
3	PLC	± .005
4	PLC	± .-
5	PLC	± .-

MATERIAL

FINISH

DRN
A. FERNANDEZ-DOCKS
CHK
D. FAROLE
APP'D
D. FAROLE

18MAR2005
18MAR2005
18MAR2005

PRODUCT SPEC
108-2100
APPLICATION SPEC
-
WEIGHT
-
CUSTOMER DRAWING

TRP connector
Dongguan China

TRP connector
Dongguan China

PRODUCT SPEC
108-2100
APPLICATION SPEC
-
WEIGHT
-
CUSTOMER DRAWING

SCALE
4:1

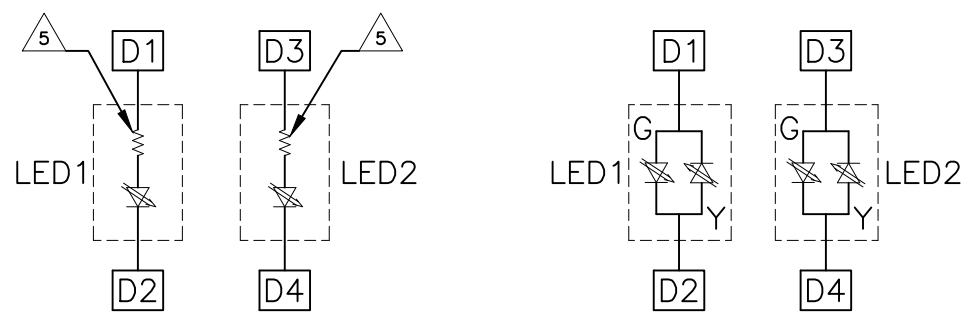
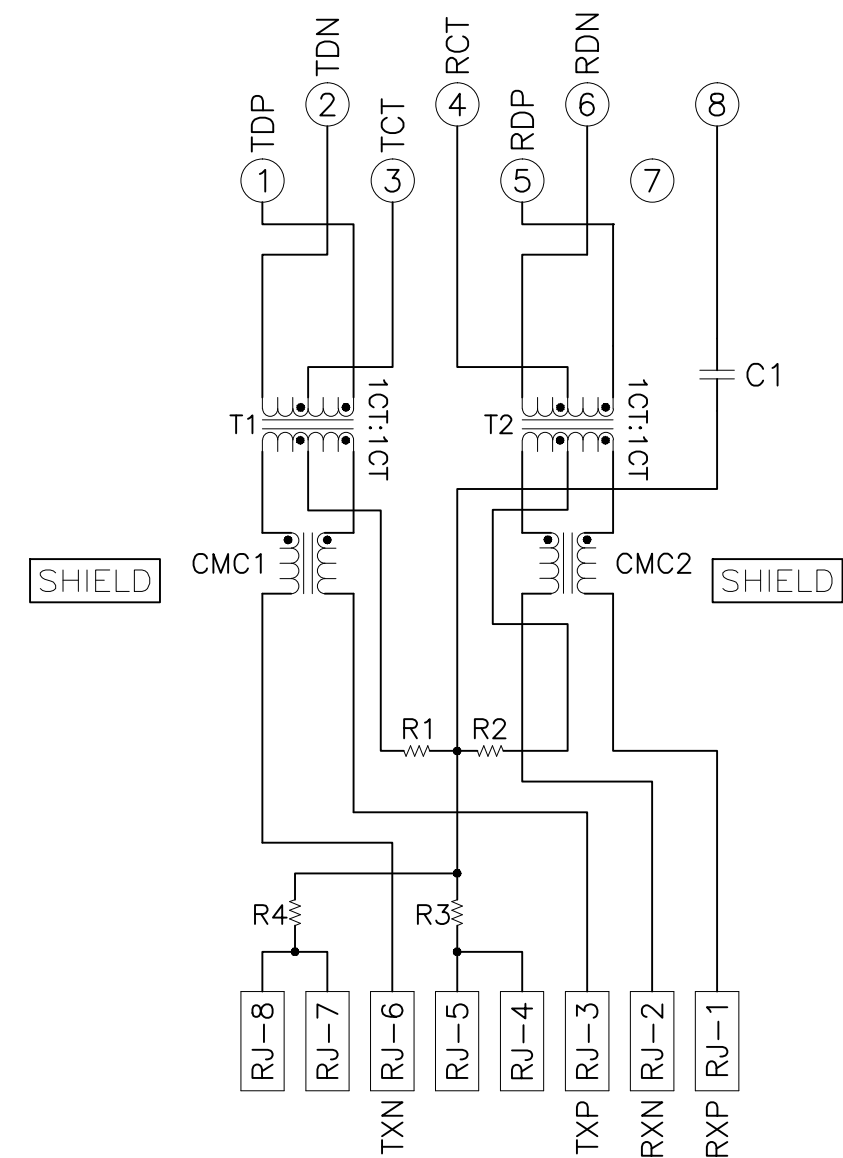
SHEET
1

OF
2

REV
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766 SERIES MAGNETIC CIRCUIT

3 6

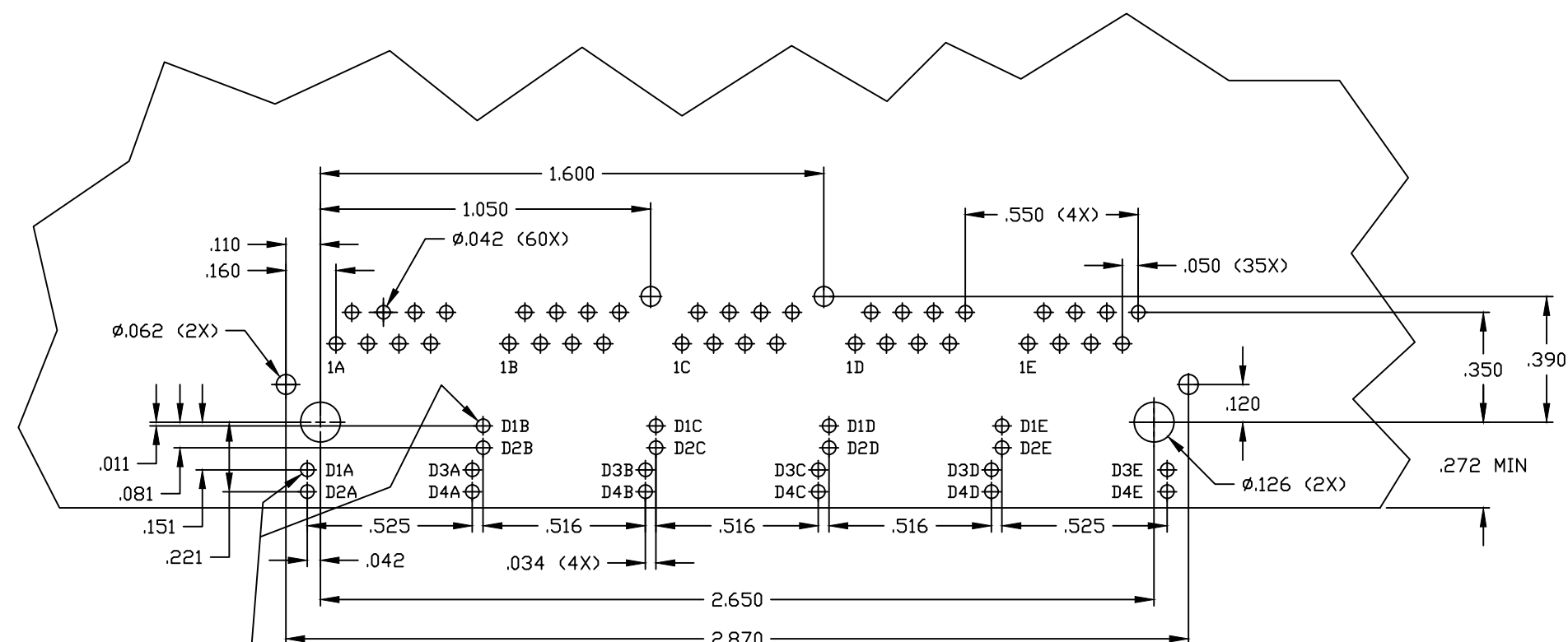
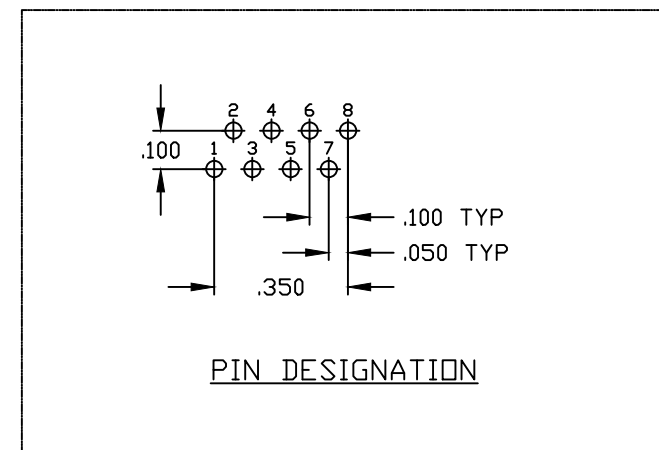


5-6610138-1

5-6610138-6

C1 = 1000pF, 2kV CAPACITOR

R1-R4 = 75 OHMS, 1/16W RESISTORS



SUGGESTED PCB LAYOUT
(Component Side)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRN A. FERNANDEZ-DOCK5 CHK D. FAROLE APD D. FAROLE	18MAR2005 18MAR2005 18MAR2005	TRP connector Dongguan China	
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	PRODUCT SPEC	108-2100	NAN X5 MAG45(TM) MODULAR JACK, 7H2 SCHEMATIC, 766 SERIES CIRCUIT, DECOUPLING CAPACITOR, SHIELDED, WITH LEDS, S3 TABS	
INCHES		APPLICATION SPEC		SIZE	CAGE CODE
				A1	00779
		WEIGHT		SCALE	4:1
		CUSTOMER DRAWING		SHEET	2 OF 2
				REV	E