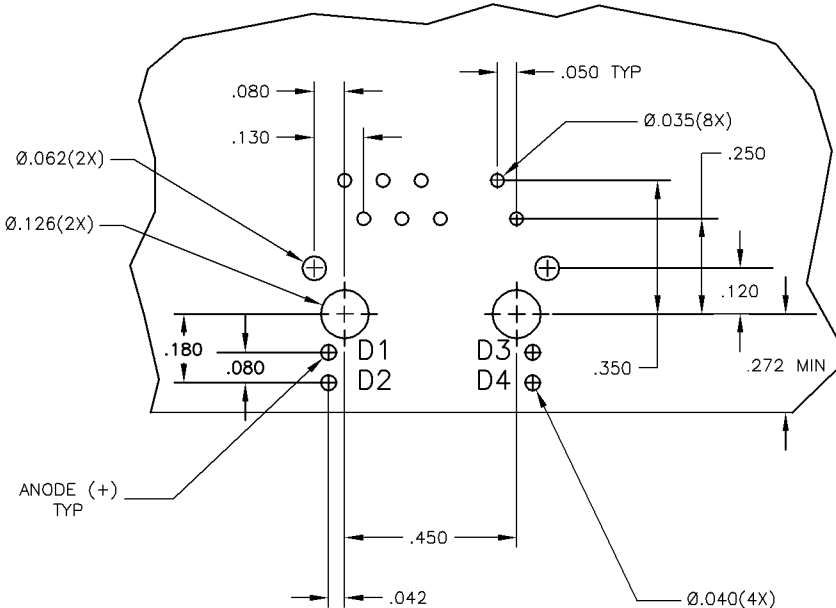
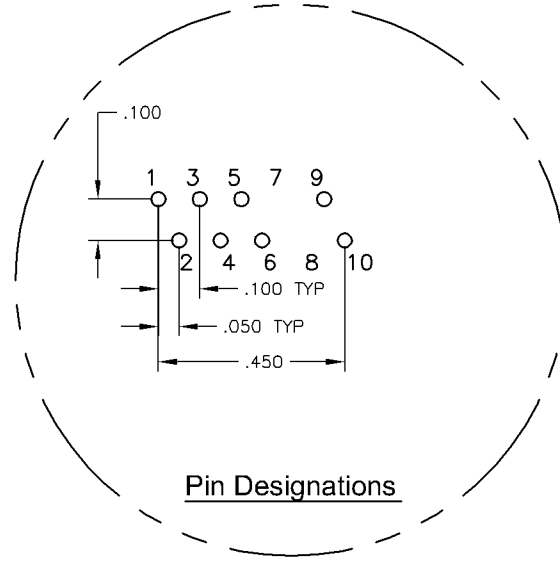




△ MATERIALS:
-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
-SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30μINCH MIN SEMI-BRIGHT NICKEL, SOLDER TABS POST DIPPED WITH 100μINCH MIN SAC SOLDER.
-MOD JACK CONTACTS - 0.0157" x 0.018" PHOSPHOR BRONZE, 50μINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50μINCH MIN HARD GOLD FINISH PLATE.
SOLDERTAILS WITH 100μINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
-LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" x .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.

△ RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

△ MAGNETICS
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP: CABLE): TX = 1:1, RX = 1:1
-OPEN CIRCUIT INDUCTANCE (OCL): 350nH MIN @100kHz, 0.1VRMS,
8mADC BIAS FROM 0°C TO 70°C, TX AND RX
-POE CURRENT: 350mADC MAX
-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
 33-20*LOG(f/50)dB MIN FROM 40.1MHZ TO 100MHZ
 COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHZ TO 100MHZ
-ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3af 2003, PARA 33.4.1, ITEM a.

4. OPERATING TEMPERATURE: FROM 0°C TO +70°C.

△ IF THE LED WITH 250 OHM RESISTORS,LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
LED COLOR : DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

△ INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION. THE MAGNETICS ARE SYMMETRICAL, AND ARE AUTO-MDI/MDIX CAPABLE.

△ TYCO ELECTRONICS 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. PREHEAT TEMPERATURE IS 120°C TO 160°C, 120 SECONDS TO 180 SECONDS, PEAK WAVE SOLDERING TEMPERATURE IS 260°C MAX,10 SECONDS MAX.

7D15 PoE MAGNETIC CIRCUIT

ELECTRICAL

7D15 PoE MAGNETIC CIRCUIT

SHIELD

SHIELD

LED1

LED2

RJ-8

RJ-7

RJ-6

RJ-5

RJ-4

RJ-3

RJ-2

RJ-1

RXN

TXN

TXP

RXP

RDP

RDN

RCT

TCT

TDP

TDN

T1

T2

T3

T4

CMC1

CMC2

D1

D2

D3

D4

D5

D6

D7

D8

+PWR

-PWR

THIS DRAWING IS A CONTROLLED DOCUMENT.		P/N LVARLA - DOCKS OMAW2005 Q/R D. FAROLE OMAW2005 A/P/D D. FAROLE OMAW2005 PRODUCT SPEC 108-2100 APPLICATION SPEC — WEIGHT —		Tyco Electronics Tyco Electronics Corporation ChangPing, China NAME 1X1 MAC45(TM), MODULAR JACK, 7DN2 SCHEMATIC, 7D15 PoE CIRCUIT, SHIELDED, WITH RESISTOR LEADS SIZE DATE CODE DRAWING NO A1 00779 C-6605834		RESTRICTED TO
DIMENSIONS: INCHES 		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± — 1 PLC ± .010 2 PLC ± .005 3 PLC ± .005 4 PLCS ± .005 ANGLES ± .005 FINISH		MATERIAL 		SCALE NTS SHEET 1 OF 1 REV D