



- NOTES:
- MATERIAL:
    - PLASTIC HOUSING: POLYAMIDE, GLASS FIBER FILLED, UL94V-0, COLOR: BLACK
    - SHIELD: BRASS
    - BACK SHIELD: BRASS
    - CONTACTS: PHOSPHOR BRONZE
    - LED: DIFFUSED EPOXY LENS, CARBON STEEL LEAD FRAME
  - PLATING:
    - SHIELD: SOLDER TAIL: TIN(Sn), THICKNESS=100 MICRONCH MINIMUM UNDER PLATE: NICKEL(Ni) PLATED (SOLDERING AVAILABLE) OVERALL.
    - TERMINAL CONTACT AREA: GOLD(Au), THICKNESS=50 MICRONCH/1.27 MICROMETER SOLDER TAIL: TIN(Sn), THICKNESS=100 MICRONCH MINIMUM UNDER PLATE: NICKEL(Ni) PLATED OVERALL.
    - LED: TIN/SILVER/NICKEL/COPPER PLATING
  - MAGNETICS:
    - IMPEDANCE: 100 OHMS
    - TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL): 350uH (MIN) @ 100KHZ, 0.1 VRMS WITH 8 mA DC BIAS
    - TURNS RATIO (CHIP: CABLE): TX:1, RX:1:1
    - PERFORMANCE:
      - TRANSMIT BIDIRECTIONAL J3 AND J6
      - RECEIVE BIDIRECTIONAL J1 AND J2

LED ELECTRICAL SPECIFICATION

PARAMETER	YELLOW (TYP.)	GREEN (TYP.)	UNITS	TEST CONDITIONS
POWER DISSIPATION	100	100	mW	
REVERSE VOLTAGE	5	5	V	
PEAK WAVELENGTH	585	565	nm	IF=20mA
FORWARD VOLTAGE	2.1 MAX.=2.5	2.1 MAX.=2.5	V	IF=20mA

FREQUENCY	INSERTION LOSS	RETURN LOSS	CROSSTALK ATTENUATION	COMMON MODE REJECTION RATIO TX	RX
1.0MHZ-15.0MHZ	0.3dB(MAX)	18.0dB(MIN)	35.0dB(MIN)	46.0dB(MIN)	35.0dB(MIN)
15.1MHZ-60.0MHZ	0.6dB(MAX)	16.0dB(MIN)	26.0dB(MIN)	46.0dB(MIN)	35.0dB(MIN)
60.1MHZ-80.0MHZ	1.1dB(MAX)	15.0dB(MIN)	24.0dB(MIN)	42.0dB(MIN)	33.0dB(MIN)
80.1MHZ-100.0MHZ	1.1dB(MAX)	12.0dB(MIN)	24.0dB(MIN)	42.0dB(MIN)	33.0dB(MIN)

- DIELECTRIC (ISOLATION VOLTAGE): 2250 VDC (1mA CUTOFF CURRENT) FOR 60 SECONDS DURATION WITH DECOUPLING CAP
- ALL BRIDGED ON EITHER SIDE OF MAGNETICS PACKAGE FOR RJ-45 CONTACT
- RECOMMENDED PCB THICKNESS 2.00mm(.079")
- SUGGESTED OPERATING CURRENT FOR THE LED IS 20mA
- PRODUCT SPECIFICATION REFER TO PS-48033-002
- TEST SUMMARY REFER TO TS-48033-004
- PACKAGING SPECIFICATION REFER TO PK-48033-004
- LEAD FREE AND ROHS COMPLIANT PRODUCT

ROHS FOR 48033-2000  
 EC NO: SH2007-0131  
 DRWN: ALLIN 2006/10/04  
 CHKD: 2006/10/04  
 APPR: WMSCHANG 2006/10/04

QUALITY SYMBOLS  
 ▽=0  
 ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY

DRAWN BY: LINDA DATE: 2006/08/08

CHECKED BY: ALLEN LIN DATE: 2006/08/10

APPROVED BY: ERICK LAN DATE: 2006/08/10

MATERIAL NO.: 48033-2900

SCALE: DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

TITLE: MODULAR JACK STACKED 2X4 RA, 10/100 ETHERNET W/ LEDS, MAGNETICS

MOLEX INCORPORATED

DOCUMENT NO.: SD-48033-004 SHEET NO.: 1 OF 2

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