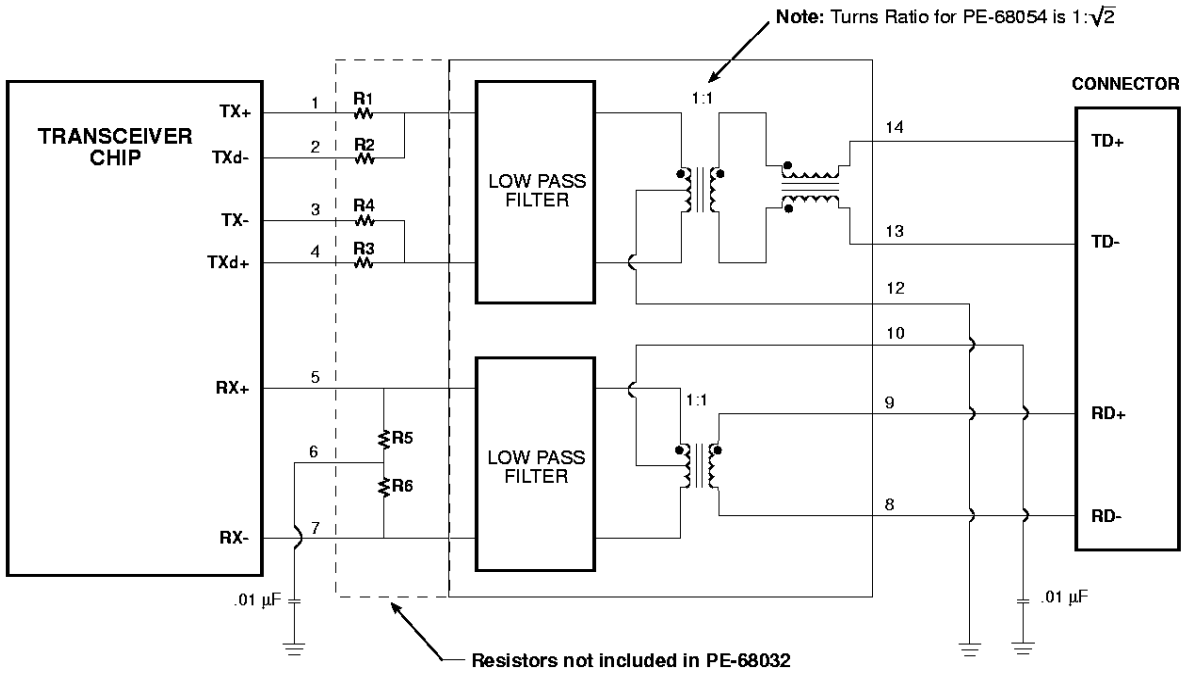
# LOW-PROFILE SURFACE MOUNT 10BASE-T INTERFACE MODULES

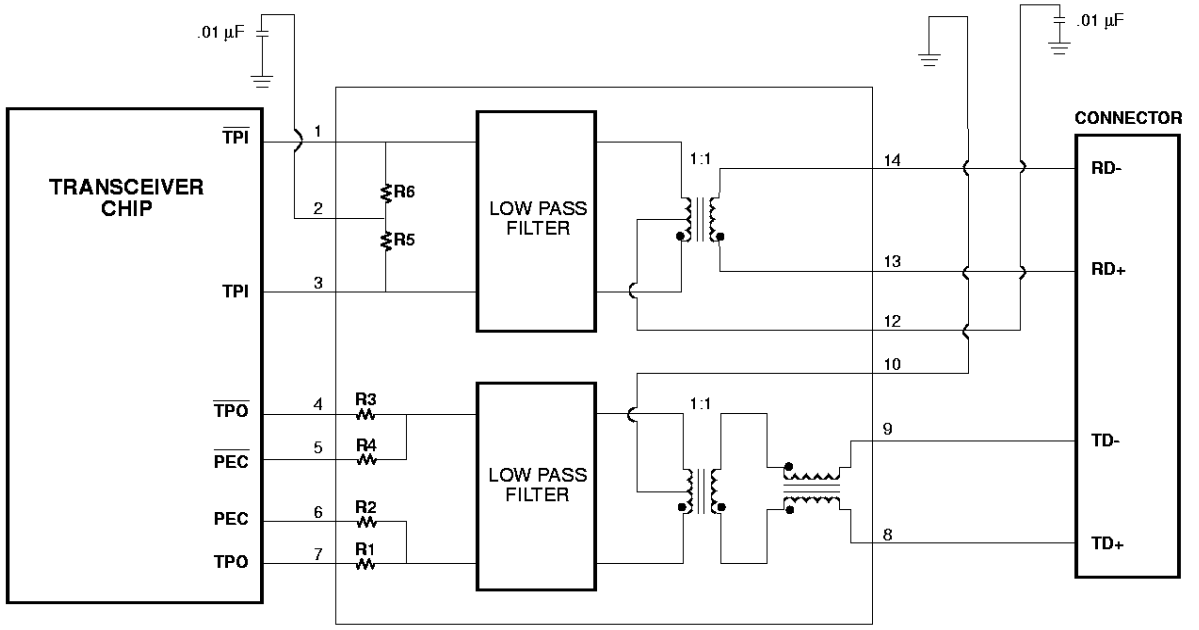
## Ideal for Type I or Type II PCMCIA Applications

Pulse INTELLIGENT SOLUTIONS

### Application Circuit – A
### PE-68032 or PE68035 or PE-68054




### Application Circuit – B
### PE-68030 or PE68036

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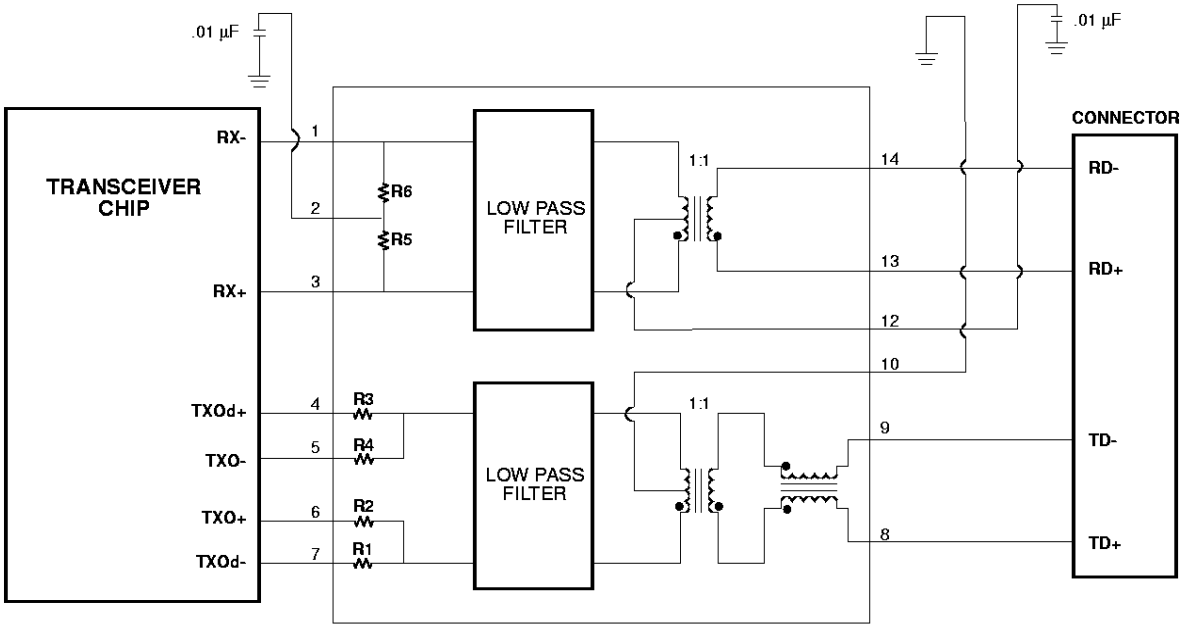
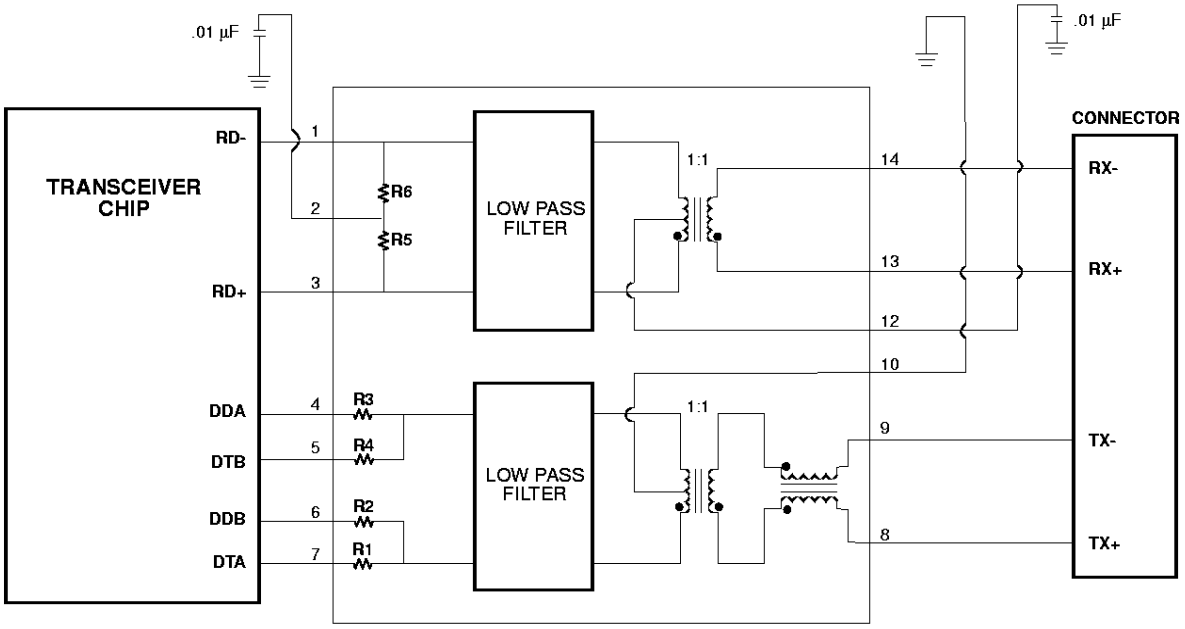
## Ideal for Type I or Type II PCMCIA Applications

### Application Circuit – C
### PE-68034




### Application Circuit – D
### PE-68033

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# LOW-PROFILE SURFACE MOUNT 10BASE-T INTERFACE MODULES

## Ideal for Type I or Type II PCMCIA Applications

### Resistor Chart

| Product Number | Resistor Number | Resistor Value | IC | IC Number | Application Circuit |
|---|---|---|---|---|---|
| **PE-68030** | R1, R3<br>R2, R4<br>R5, R6 | 53.6 Ω ±1%<br>316 Ω ±1%<br>49.9 Ω ±1% | AT&T | T7232 | B |
| **PE-68032** | NONE | N/A | Most | N/A | A |
| **PE-68033** | R1, R4<br>R2, R3<br>R5, R6 | 68.1 Ω ±1%<br>287 Ω ±1%<br>49.9 Ω ±1% | Symbios Logic | NCR92C02A<br>NCR92C350 | D |
| **PE-68034** | R1, R3<br>R2, R4<br>R5, R6 | 287 Ω ±1%<br>68.1 Ω ±1%<br>49.9 Ω ±1% | National | DP83902VJG<br>DP83934 | C |
| **PE-68035** | R1, R4<br>R2, R3<br>R5, R6 | 53.6 Ω ±1%<br>316 Ω ±1%<br>49.9 Ω ±1% | AMD | AM79C96A<br>AM79C940 | A |
| **PE-68036** | R1, R4<br>R2, R3<br>R6, R7 | 47.5 Ω ±1%<br>N/A<br>49.9 Ω ±1% | Motorola | MC68160 | B |
| **PE-68054** | R1, R4<br>R2, R3<br>R5, R6 | 20 Ω ±1%<br>133 Ω ±1%<br>49.9 Ω ±1% | DEC | 21040 | A |

### Application

Pulse Engineering's ThinSet 10Base-T modules are the optimum analog solution for PCMCIA applications. Primary design features include electrical functions, mechanical packaging and process standards.

**Electrical Functions:**

• Impedance Matching • Equipment Isolation • EMI suppression.

Each module contains low pass filters, isolation transformers, and common mode chokes. Most also include pre-emphasis and impedance matching resistors. Please refer to the appropriate application circuit and resistor chart for specific configurations.

**Mechanical Packaging:**

• Dimensions • External Features • Internal Construction.

The low .094" profile allows for use in both Type I and Type II applications. ThinSet modules are highly integrated to keep a compact form factor for improved thermal management. Compliant leads provide excellent solder-joint reliability with ±.002" coplanarity. Advanced mechanical design yields more consistent and repeatable electrical performance.

**Process Standards:**

• SMT requirements • Quality Assurance • Construction Methods.

Materials, resistant to high temperatures, have been selected for thermal compatibility to comply with industry standard reflow methods. Post dipping the leads helps ensure solderability to the PC board. Improved construction techniques increase package reliability in high stress environments.

**Note:**

Modules are packaged in tubes unless tape and reel is specified. Please add the suffix "T" (i.e. PE-68030**T**) for tape and reel orders, increments of 600 pieces.

### For More Information :


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