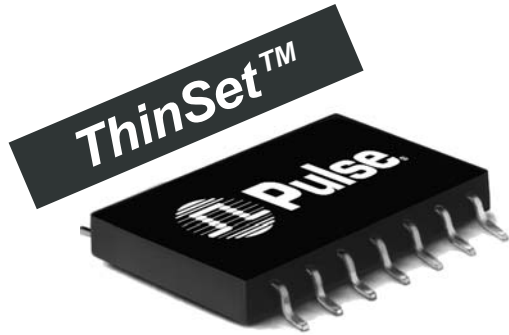


LOW PROFILE SURFACE MOUNT 10BASE-T INTERFACE MODULES

Ideal for Type I or Type II PCMCIA Applications

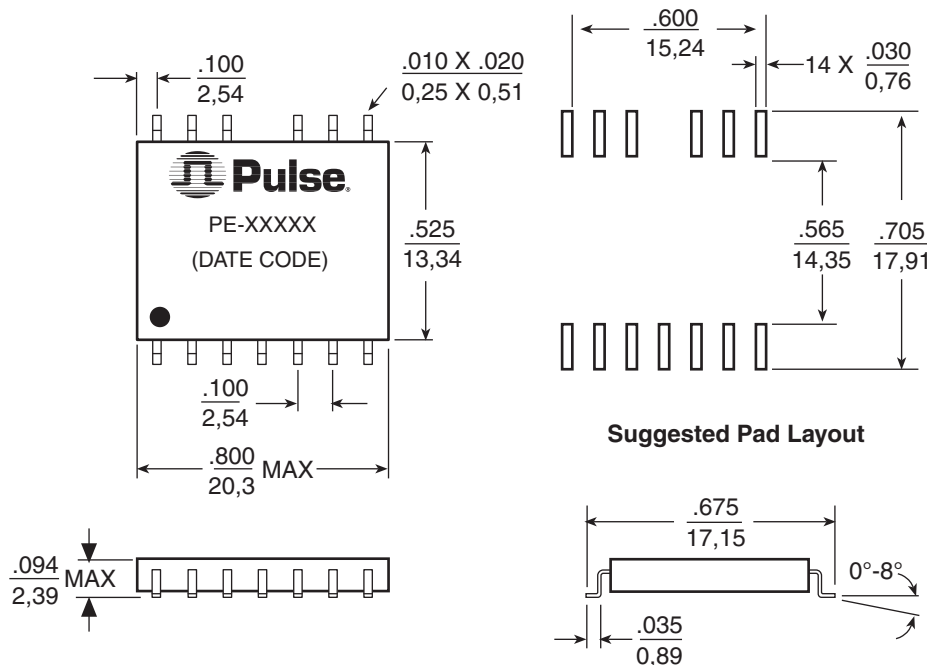


- ➊ Designed to exceed IEEE802.3i-1993
- ➋ Improved performance for FCC and CISPR Class B certification
- ➌ 235°C peak IR Reflow temperature Rating

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| Part Number | Insertion Loss* (dB MAX) | Attenuation (XMT) (dB MIN) | | | | Return Loss (dB MIN) | Crosstalk (dB MIN) | Common Mode Rejection (XMT) (dB MIN) | | | | Hipot (VRMS MIN) |
|-------------|--------------------------|----------------------------|--------|---------|----------|----------------------|--------------------|--------------------------------------|--------|--------|---------|------------------|
| | | 30 MHz | 50 MHz | 100 MHz | 5-10 MHz | | | 5-10 MHz | 10 MHz | 50 MHz | 100 MHz | |
| PE-68032 | -1.2 | -35 | -35 | -40 | -18 | -50 | -60 | -40 | -35 | -30 | 2000 | |
| PE-68034 | -5.0 | -35 | -35 | -40 | -18 | -50 | -55 | -40 | -35 | -30 | 2000 | |
| PE-68035 | -5.0 | -35 | -35 | -40 | -18 | -50 | -55 | -45 | -35 | -30 | 2000 | |
| PE-68036 | -5.0 | -30 | -30 | -40 | -18 | -50 | -55 | -40 | -35 | -30 | 2000 | |

*Test includes pre-distortion resistors, which reflect additional attenuation.



Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

Weight 1.5 grams
Tape & Reel600/reel
Tube25/tube

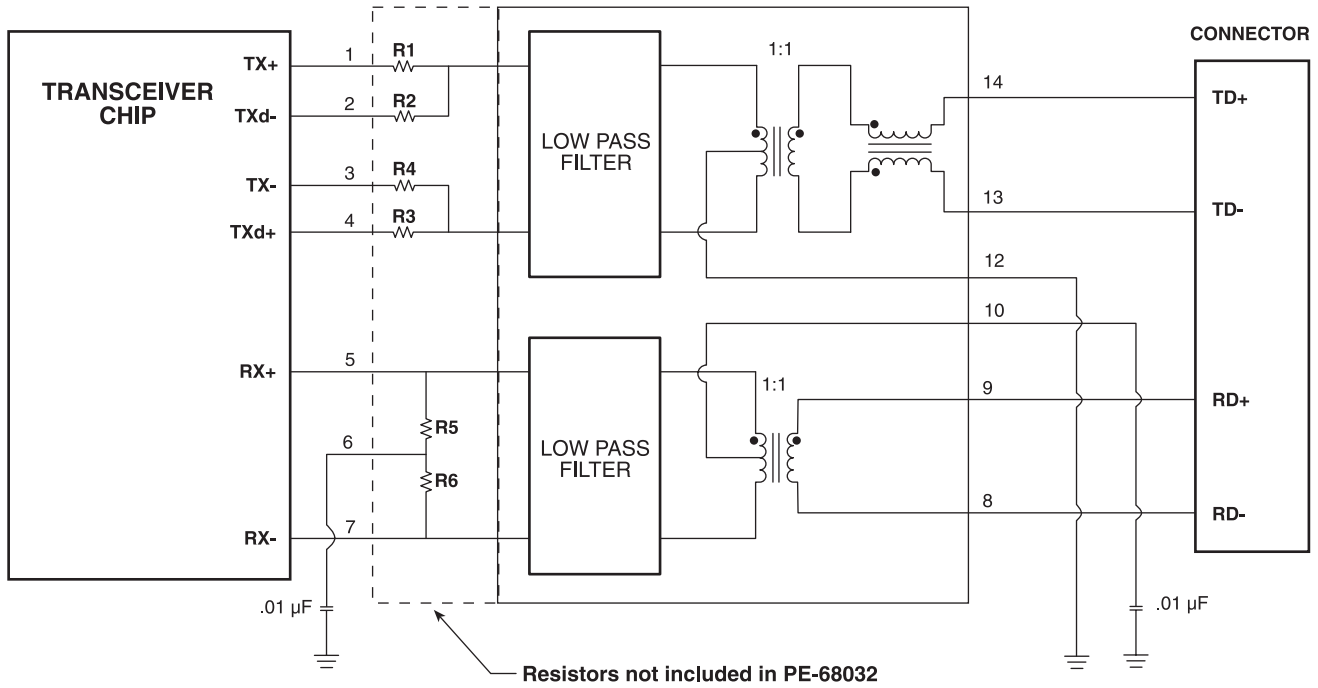
LOW PROFILE SURFACE MOUNT 10BASE-T INTERFACE MODULES

Ideal for Type I or Type II PCMCIA Applications



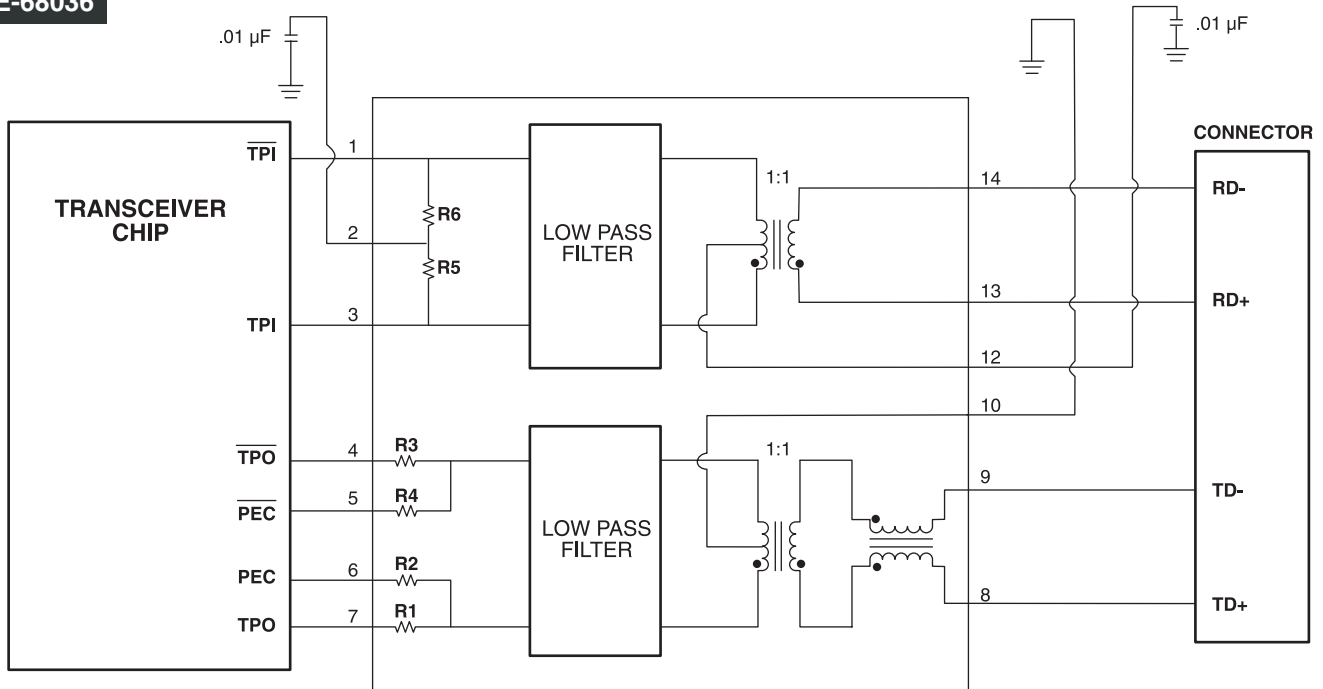
Application Circuit - A

PE-68032 or PE-68035



Application Circuit - B

PE-68036

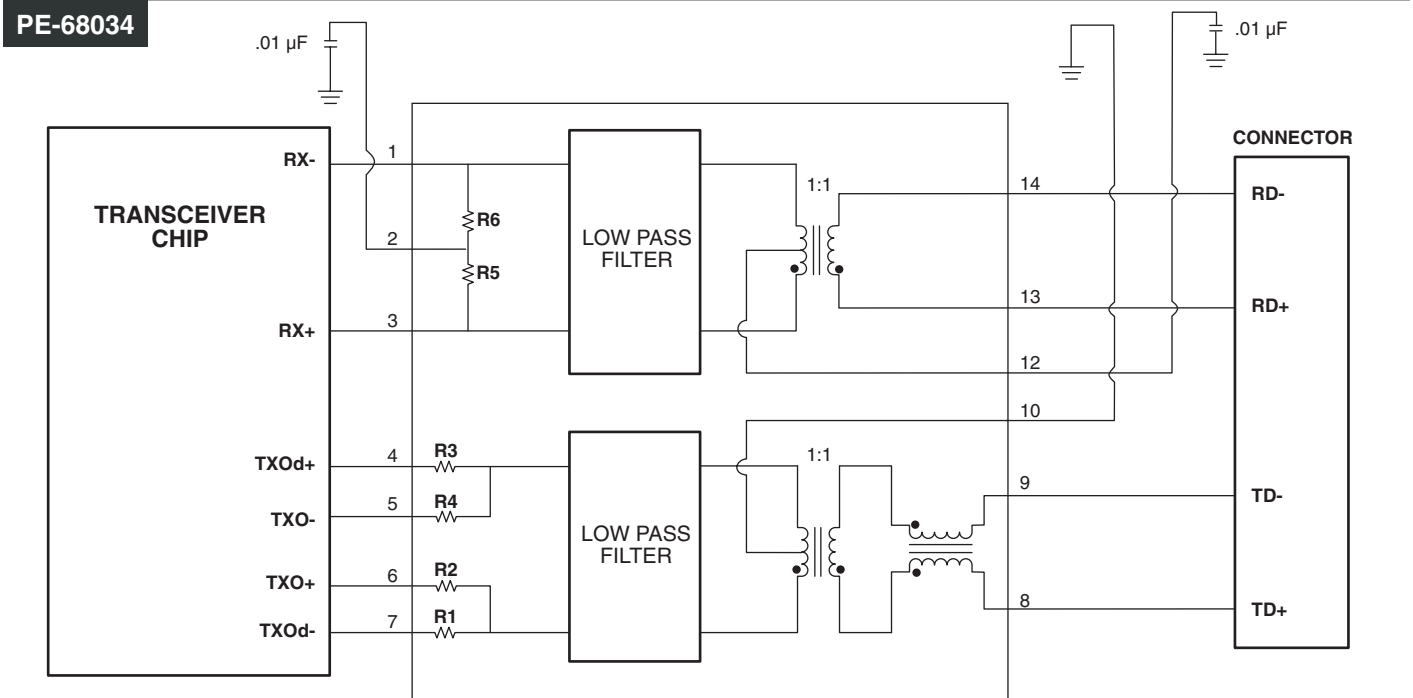


LOW PROFILE SURFACE MOUNT 10BASE-T INTERFACE MODULES

Ideal for Type I or Type II PCMCIA Applications



Application Circuit - C



Resistor Chart

| Product Number | Resistor Number | Resistor Value | IC | IC Number | Application Circuit |
|----------------|-----------------|----------------|----------|-----------------------|---------------------|
| PE-68032 | NONE | N/A | Most | N/A | A |
| PE-68034 | R1, R3 | 287 Ω ±1% | National | DP83902VJG DP83934 | C |
| | R2, R4 | 68.1 Ω ±1% | | | |
| | R5, R6 | 49.9 Ω ±1% | | | |
| PE-68035 | R1, R4 | 53.6 Ω ±1% | AMD | AM79C96A AM79C940 | A |
| | R2, R3 | 316 Ω ±1% | | | |
| | R5, R6 | 49.9 Ω ±1% | | | |
| PE-68036 | R1, R3 | 47.5 Ω ±1% | Motorola | MC68160 | B |
| | R2, R4 | N/A | | | |
| | R5, R6 | 49.9 Ω ±1% | | | |

LOW PROFILE SURFACE MOUNT 10BASE-T INTERFACE MODULES

Ideal for Type I or Type II PCMCIA Applications



Application

Pulse'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 $\pm .002$ " 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-68032T) for tape and reel orders, increments of 600 pieces.

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