

## Technical Assistance Questionnaire

### Notes on Questionnaire Usage:

- 1.) Print and complete the form below.
- 2.) Once the form is completed and printed, fax a copy of it to us at 802-476-4149. Please add the title "**Attn: Applications Engineering**" to the heading of the fax

Company Name: \_\_\_\_\_ Engineering Contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_ e-mail: \_\_\_\_\_

Product: \_\_\_\_\_ Circuit Description: \_\_\_\_\_

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### Application Information

Maximum ambient temperature: \_\_\_\_\_ Forced air cooling (circle one): Yes or No

Frequency: \_\_\_\_\_ Worst Case DC voltage across capacitor: \_\_\_\_\_

Worst case Peak-to-Peak voltage across capacitor: \_\_\_\_\_

### Pulse Applications Only

Rise time (10-90%) of largest single voltage transition (pulse applications): \_\_\_\_\_

Peak to Peak amplitude of largest single voltage transition (pulse applications): \_\_\_\_\_

**Data Source** (circle one): Measured or Simulated

### Worst Case Waveforms

Include a scope photo/plot or simulation printout of the worst case amplitude

1. Sine or near sine wave applications, one complete period is sufficient.
2. Pulse applications; show each voltage transition in detail across at least 2 horizontal divisions as well as one complete period. This may require a separate waveform photo/plot for each transition.

Ensure all waveforms include:

1. Zero voltage reference
2. Vertical sensitivity
3. Time scale

### Notes:

1. Avoid using vertical amplifier bandwidth limiters when examining fast voltage transitions, doing so may hide fast transients and create rise time errors.
2. We strongly suggest using voltage measurements for application analysis, current measurements tend to add inductance. RMS current is meaningless for pulse applications because it contains no frequency information.