

Application Note #138:

Limiting Current on PSTN Lines

INTRODUCTION

Application Note #138 provides a solution to limit the PSTN line current for those applications where PSTN line current routinely exceeds 80mA.

METHOD

Add a series resistor in both the Tip and Ring PSTN lines. A resistor must be added to both lines to preserve signal balance. Use a resistor value of 200 Ω to 300 Ω . This will limit the current to 40-60mA at the DAA/modem module with very little performance degradation. The resistors in the pair must match each other to within $\pm 1\%$ of the nominal value chosen to maintain longitudinal balance.

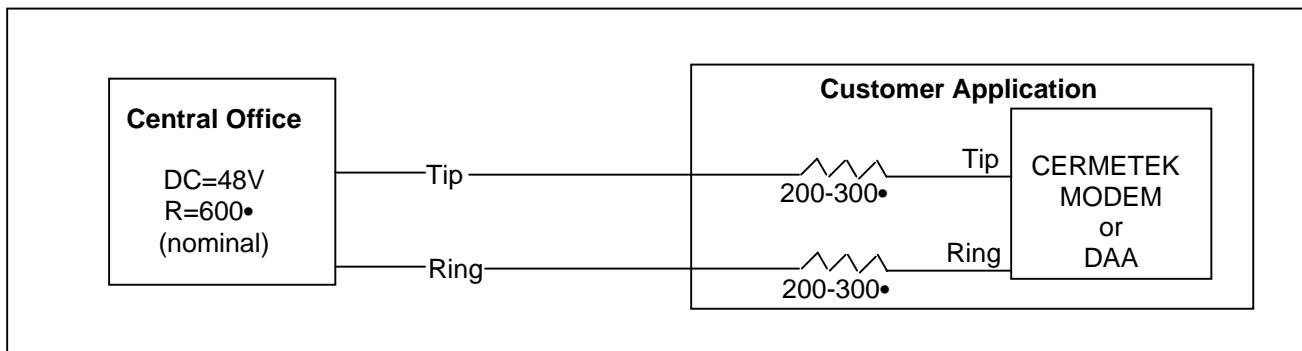


Figure 1. Block diagram indicating location of current limiting resistors.

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Printed in U.S.A

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