



Product Brief

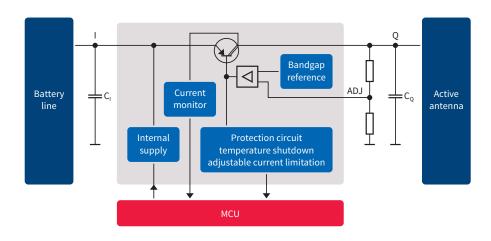
TLF4277-2EL and TLF4277-2LD

Active antenna supply. Linear voltage regulator with integrated current sense.

The TLF4277-2 is the ideal companion IC to supply active antennas for car infotainment applications. The adjustable output voltage makes the TLF4277-2 capable of supplying the majority of standard active antennas such as FM/AM, DAB XM and SIRIUS.

The TLF4277-2 is a monolithic integrated low drop out voltage regulator capable of supplying loads up to 300 mA. For an input voltage up to 40 V the TLF4277-2 provides an adjustable output voltage in a range from 5 V up to 12 V. The integrated current monitor function is a unique feature that provides diagnosis and system protection functionality. Fault conditions such as overtemperature and output overvoltage are monitored and indicated at the current sense output. The maximum output current limit of the device is adjustable to provide additional protection to the connected load. Via the enable function the IC can be disabled to lower the power consumption.

TLF4277-2 has two package options. The SSOP-14 EP package provides an enhanced thermal performance within a SO-8 body size. The TSON-10 package is a 3.3×3.3 mm leadless package with excellent thermal performance and the capability for AOI.



Key features

- > Integrated current monitor
- Overvoltage, overtemperature and overcurrent detection
- › Adjustable output voltage
- > Output current up to 300 mA
- > Adjustable output current
- > Digtal error flag
- > Leadless package option

Key benefits

- > System reliability
- > System cost optimization
- > Real time monitoring of load
- > Improved application lifetime
- > Immediate error detection
- > Less board space
- > Automated Optical Inspection

Applications

Infotainment

- Active antenna supply for AM/FM, DAB, GPS, satellite
- > Microphone supply

Automotive Ecall

- > GPS supply
- > Battery management IC
- > External sensors supply
- > Automotive communication



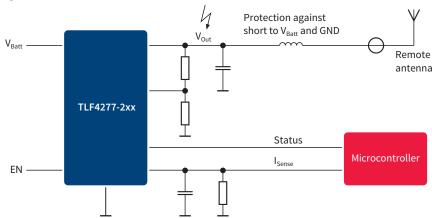




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Application block diagramm





50 percent less board space



TLF4277-2EL SSOP-14 4.9 x 6.0 x 1.7 mm TLF4277-2LD TSON-10 with AOI 3.3 x 3.3 x 1.1 mm

Product summary

п	Sales name	OPN	Package
	TLF4277-2EL	TLF42772ELXUMA2	SSOP-14
	TLF4277-2LD	TLF42772LDXUMA1	TSON-10

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