



Product Preview PLL Tuning Circuit

with 3-Wire Bus

The MC44827 is a tuning circuit for TV and VCR tuner applications. This device contains on one chip all the functions required for PLL control of a VCO. This integrated circuit also contains a high frequency prescaler and thus can handle frequencies up to 1.3 GHz.

The MC44827 is controlled by a 3–wire bus. It has the same function as the MC44828 which is I^2C bus controlled. The MC44827 and MC44828 can replace each other to allow conversion between 3–wire bus and I^2C bus control.

The MC44827 is manufactured on a single silicon chip using Motorola's high density bipolar process, MOSAIC[™] (Motorola Oxide Self Aligned Implanted Circuits).

The MC44827 has the same features as MC44817 with the following differences:

- Lower Power Consumption, 200 mW Typical
- Improved Prescaler with Higher Margins for Sensitivity and Temperature Range. (A typical device is functional in a temperature range greater than –40 to 100°C.)
- Lock Detector with Push–Pull Output
- No Bypass of Divide-by-8 Prescaler
- TSSOP Package



(Top View)

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ORDERING INFORMATION

Device	Operating Temperature Range	Package
MC44827DTB	TJ = −20 ° to +80°C	16 Pin TSSOP

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MC44827

OUTLINE DIMENSIONS



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