

# Si47967 Data Short

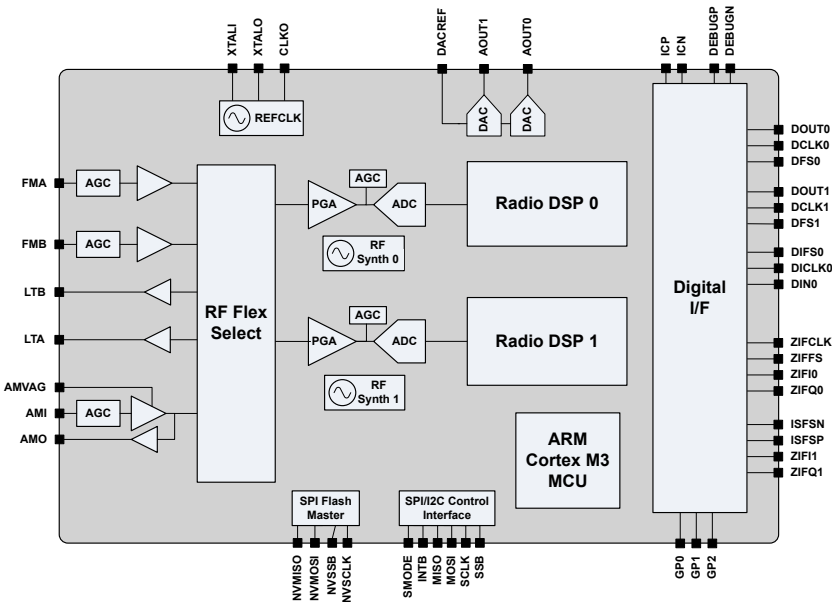
## High-Performance Automotive Dual AM/FM Radio Receiver and DRM Tuner

The Si47967 integrates two global radio receivers. The analog AM/FM receivers and digital radio tuners set a new standard for automotive broadcast reception.

The Si47967 is the most integrated automotive hybrid SDR DRM tuner in the industry with the smallest external bill of materials. Si47967-based systems can scale from a low-cost dual tuner AM/FM radio to the highest performance systems with multiple tuners and multiple antennas, enabling radio suppliers to reuse their R&D across multiple product lines, all with a common software API. The Si47967 A-grade parts meet rigorous automotive quality standards.

### Applications

- OEM automotive infotainment systems
- Aftermarket car radio systems



### KEY FEATURES

- Dual worldwide FM band support (64–108 MHz)
- Dual worldwide AM band support (520–1710 kHz)
- Dual LW band support (144–288 kHz)
- Dual SW band support (2.3–30 MHz)
- On-chip RDS/RDBS
- AM/FM
  - Comprehensive AM/FM signal processing firmware
  - Integrated active AM/FM buffers for background/data tuners
  - Analog FM phase diversity with two tuners
- DRM30/DRM+
  - Digital I/Q interface to DRM processor
  - Fully integrated AGC
  - DRM detect
- Audio
  - Two analog audio outputs
  - Three digital audio ports (I<sup>2</sup>S)
- 1.8 V or 3.3 V digital IO power supplies
- 3.3 V analog power supply and 1.8 V digital power supply
- QFN 56-pin, 8 x 8 x 0.85 mm
- Pb-free/RoHS compliant
- AEC-Q100 qualified (A-grade devices)

## 1. Pin Descriptions

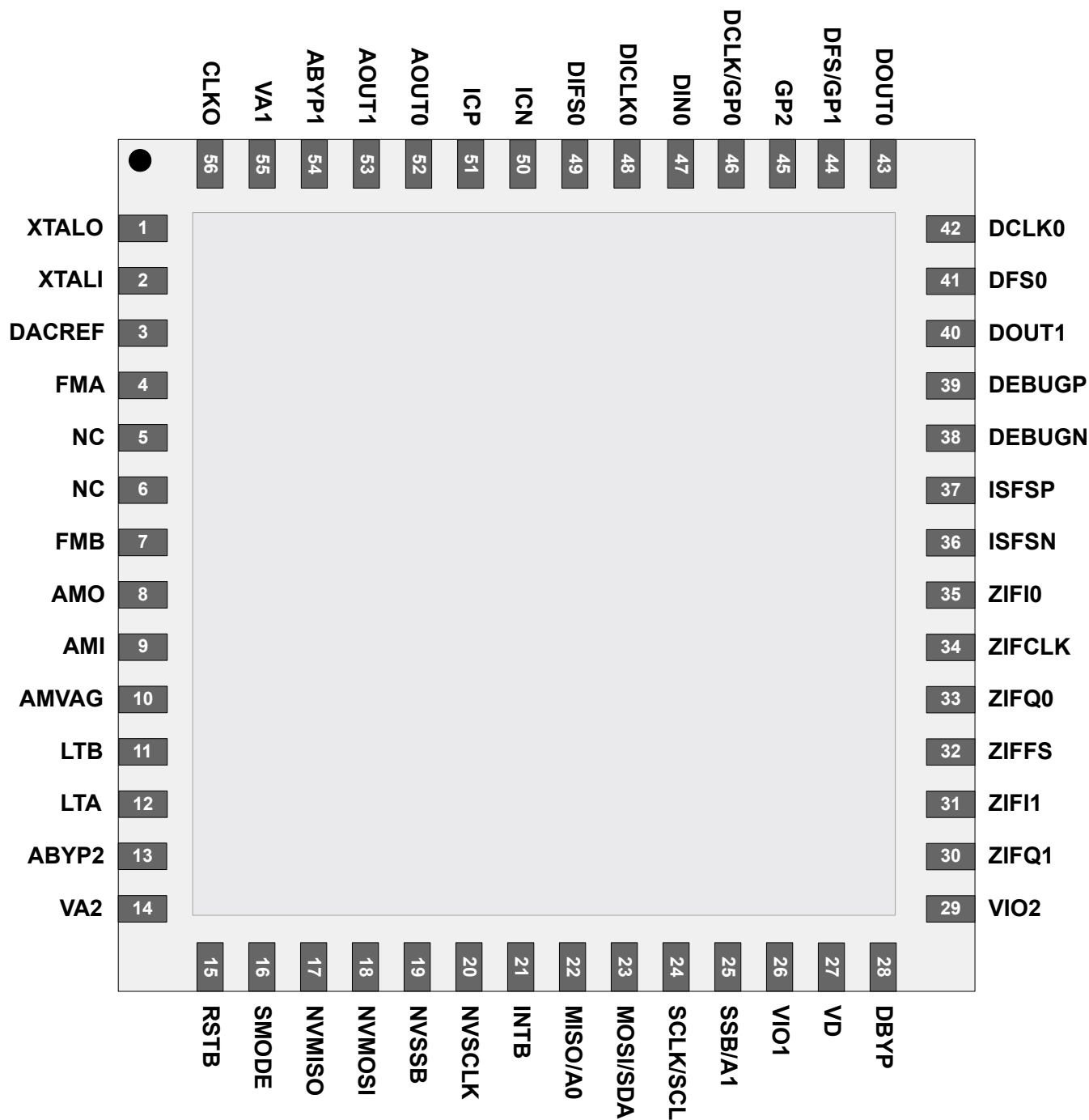


Figure 1.1. Si47967 Pinout Diagram

2. Package Outline

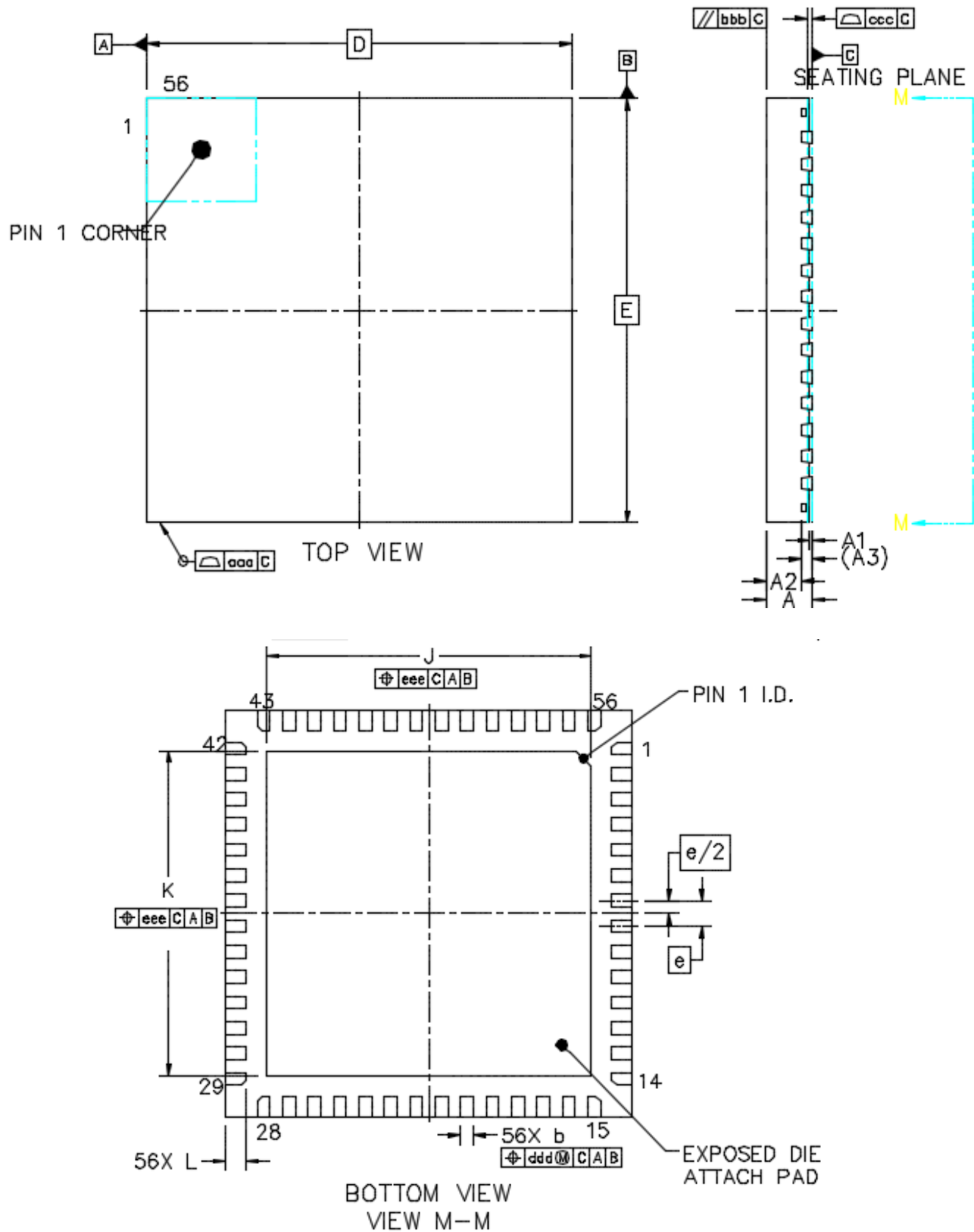


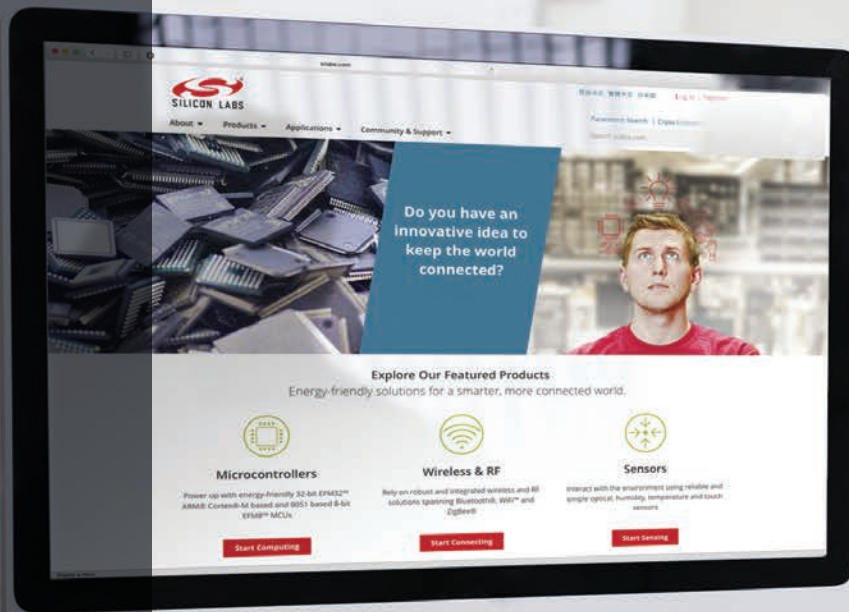
Figure 2.2. 56-Pin QFN

Table 2.1. Package Dimensions

Dimensions	Min	Nom	Max
A	0.80	0.85	0.90
A1	0.00	0.035	0.05
b	0.20	0.25	0.30
A3	0.203 REF		
D	8.00 BSC		
e	0.5 BSC		
E	8.00 BSC.		
D2	6.30	6.40	6.50
E2	6.30	6.40	6.50
L	0.35	0.40	0.45
K	0.20	—	—
aaa	0.10		
bbb	0.10		
ccc	0.08		
ddd	0.10		
eee	0.10		

**Note:**

1. All dimensions shown are in millimeters (mm) unless otherwise noted.
2. Dimensioning and Tolerancing per ANSI Y14.5M-1994.
3. Recommended card reflow profile is per the JEDEC/IPC J-STD-020 specification for Small Body Components.



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