

MAX2135A

ISDB-T/DVB-T Diversity Tuner

Industry's Only Diversity Tuner for Automotive TV Consumes Only 300mW

Overview

- Features and Benefits

- Product Details

- Multiple Frequency Ranges
 - VHF-L: 90MHz to 108MHz
 - VHF-H: 170MHz to 230MHz
 - UHF: 470MHz to 862MHz
- Complete Diversity Solution
- Low UHF Noise Figure: 3.7dB (typ)
- High Dynamic Range: -99dBm to +10dBm
- Integrated VHF/UHF Tracking Filter
- Integrated VCO and Tank Circuits
- Low Phase Noise: -95dBc/Hz at 10kHz (typ)
- Integrated Channel Filters (6MHz, 7MHz, and 8MHz)
- Single +2.7V to +3.47V Supply Voltage Range
- Low Power: 396mW (typ)
- Shutdown and Standby Modes
- I²C Serial Interface

Part Number - MAX2135AETN/V+

Pin/Package - [56-LFCSP-7X7X0.75](#)

Packaging Qty - Tube,43

Temp Range - -40 to 85C

RoHS – Yes

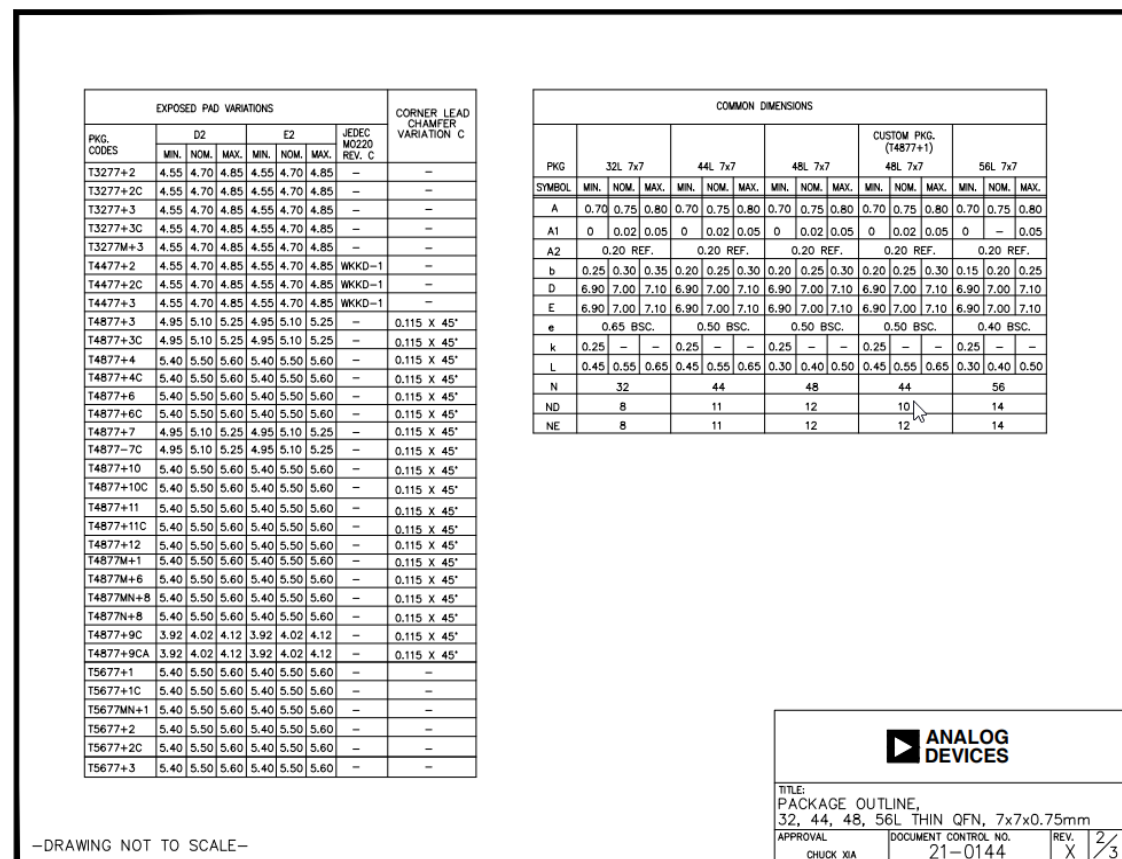
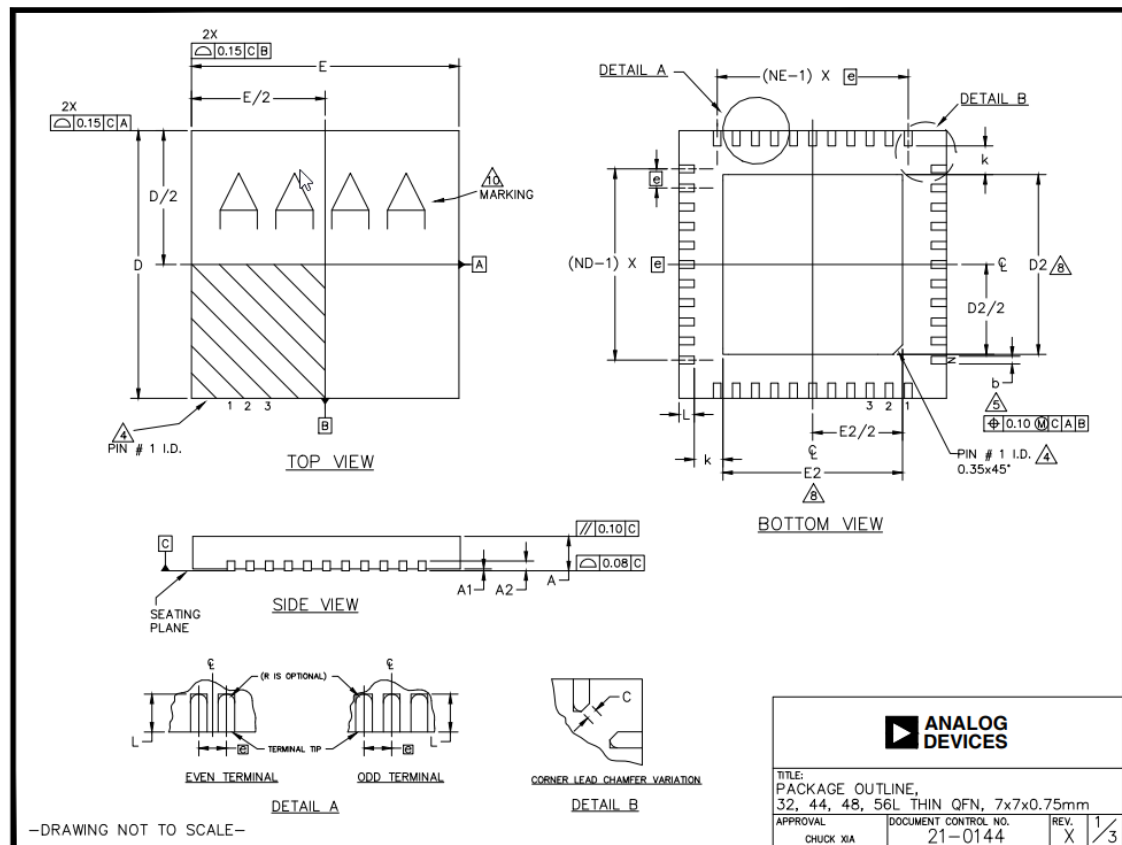
Material Content Declaration

Compliance	Status
EU RoHS	Compliant
EU RoHS-2 New Substances	Compliant
Low Halogen Scan	Compliant
REACH SVHC (235)	Compliant

Product Information	Value
Lead/Ball Finish	Matte Tin
MSL	1
Reflow Ratings	260C, 168hrs
Package	THIN QFN ; 56 pins; 7.1mm x 7.1mm x 0.8mm

Homogeneous Substance Name	Homogeneous Substance Mass (mg)	Substance Name	CAS Number	Mass (mg)	Concentration (ppm)
Silicon Die	7.450	Silicon	7440-21-3	7.450000	1000000
Lead frame	25.329	Copper	7440-50-8	24.622320	972100
		Iron	7439-89-6	0.521777	20600
		Phosphorus	7723-14-0	0.007598	300

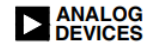
Product Information		Value			
		Silver	7440-22-4	0.157039	6200
		Zinc	7440-66-6	0.020263	800
Mold Compound	131.187	Epoxy Resin	85954-11-6	13.315480	101500
		Silica, Fused	60676-86-0	114.263877	871000
		Metal Hydroxide	Proprietary	3.279675	25000
		Carbon black	1333-86-4	0.327967	2500
Bond Wire	1.247	Gold	7440-57-5	1.247000	1000000
Die Attach	2.670	Epoxy Resin	85954-11-6	0.480600	180000
		Silver	7440-22-4	2.189400	820000
Lead Finish	6.530	Tin	7440-31-5	6.530000	1000000



NOTES:

1. DIMENSIONING & TOLERANCING CONFORM TO ASME Y14.5M-2009.
2. ALL DIMENSIONS ARE IN MILLIMETERS. ANGLES ARE IN DEGREES.
3. N IS THE TOTAL NUMBER OF TERMINALS.
4. THE TERMINAL #1 IDENTIFIER AND TERMINAL NUMBERING CONVENTION SHALL CONFORM TO JESD 95-1 SPP-012. DETAILS OF TERMINAL #1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE TERMINAL #1 IDENTIFIER MAY BE EITHER A MOLD OR MARKED FEATURE.
5. DIMENSION b APPLIES TO METALLIZED TERMINAL AND IS MEASURED BETWEEN 0.25 mm AND 0.30 mm FROM TERMINAL TIP.
6. ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE RESPECTIVELY.
7. DEPOPULATION IS POSSIBLE IN A SYMMETRICAL FASHION.
8. DRAWING CONFORMS TO JEDEC MO220 EXCEPT THE EXPOSED PAD DIMENSIONS OF T4877+3/+4/+6 & T5677+1.
9. WARPAGE SHALL NOT EXCEED 0.10 mm.
10. MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
11. NUMBER OF LEADS SHOWN ARE FOR REFERENCE ONLY.
12. MATERIAL MUST BE COMPLIANT WITH MAXIM SPECIFICATION 10-0131 FOR SUBSTANCE CONTENT, MUST BE EU ROHS COMPLIANT WITHOUT EXEMPTION AND Pb-FREE.
13. ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbFREE (+) PKG. CODES.

-DRAWING NOT TO SCALE-



TITLE:
PACKAGE OUTLINE,
32, 44, 48, 56L THIN QFN, 7x7x0.75mm

APPROVAL CHUCK XIA	DOCUMENT CONTROL NO. 21-0144	REV. X	3/3
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