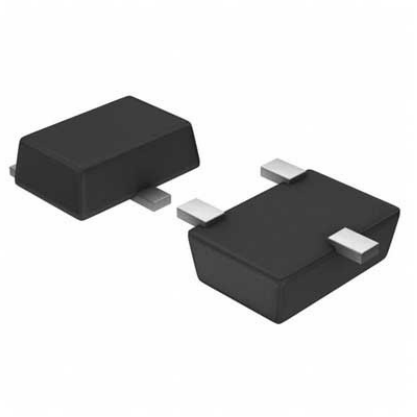
MAX1472AKA+T

Low-Power Crystal-Based Ask Transmitter 8-Pin SOT-23 T/R

Manufacturer:	Analog Devices, Inc
Package/Case:	SOT23-8
Product Type:	RF Integrated Circuits
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

The MAX1472 is a crystal-referenced phase-locked loop (PLL) VHF/UHF transmitter designed to transmit OOK/ASK data in the 300MHz to 450MHz frequency range. The MAX1472 supports data rates up to 100kbps, and adjustable output power to more than +10dBm into a 50Ω load. The crystal-based architecture of the MAX1472 eliminates many of the common problems with SAW transmitters by providing greater modulation depth, faster frequency settling, higher tolerance of the transmit frequency, and reduced temperature dependence. Combined, these improvements enable better overall receiver performance when using a superheterodyne receiver such as the MAX1470 or MAX1473.

The MAX1472 is available in a 3mm x 3mm 8-pin SOT23 package and is specified for the automotive (-40°C to +125°C) temperature range. An evaluation kit is available. Contact Maxim Integrated for more information.

Key Features

Single supply voltage range from 2.1V to 3.6V

Automotive temperature range from -40°C to 125°C

Low operating supply current is 5.3mA (50% duty cycle, fRF=315MHz, 2.7V supply, 10dBm output power)

Supports ASK with 90dB modulation depth

Transmit efficiency with CW is 43.6% at fRF = 315MHz and 41.3% at fRF = 433MHz

Transmit efficiency at 50% duty cycle is 37.6% at fRF = 315MHz and 35.1% at fRF = 433MHz

Uses small low cost crystal

Fast-on oscillator, 220µs start-up time

Standby current of 5nA at VENABLE < VIL, TA < +85°C

Phase noise of -84dBc/Hz at fOFFSET =100KHz, fRF = 315MHz

Application

Radio-Controlled Toys

Remote Keyless Entry (RKE)

RF Remote Controls

Security Systems

Tire-Pressure Monitoring (TPM)

Wireless Computer Peripherals

Wireless Game Consoles

Wireless Sensors

Recommended For You

MAX2112ETI+

Analog Devices, Inc

QFN28

MAX7058ATG+

Analog Devices, Inc

QFN24

MAX2172ETL+

Analog Devices, Inc

QFN

MAX2694EWS+T

Analog Devices, Inc

WLP-4

MAX2170ETL+T

Analog Devices, Inc

TQFN40

MAX2091ETP+

Analog Devices, Inc

QFN20

MAX66040E-000AA+

Analog Devices, Inc

BGA

MAX2659ELT+TG47

Analog Devices, Inc

QFN

MAX2016ETI+T

Analog Devices, Inc

QFN

MAX2769CETI+T

Analog Devices, Inc

QFN

MAX2120CTI+T

Analog Devices, Inc

QFN-20

MAX2015ETA+

Analog Devices, Inc

TDFN

MAX2686LEWS+T

Analog Devices, Inc

SMDSMT

MAX3510EEP+T

Analog Devices, Inc

SSOP20

MAX19790ETX+T

Analog Devices, Inc

QFN