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F1429

Active Samples Available

Differential Input, Single-ended Output High Gain RF Amplifier

The F1429 family is a series of differential input / single-ended output 1400MHz to 6000MHz high gain RF amplifiers.

The F1429 series is designed to operate with a single 5V power supply using a nominal 70mA of ICC. When using a supply voltage of 5V, the F1429 variant provides 18dB typical gain with 4dB noise figure and +35dBm OIP3 at 3600MHz.

Features

- RF range: 1400MHz to 6000MHz
 - F1429LB Variants: 1400MHz to 3200MHz
 - F1429MB Variants: 3000MHz to 4200MHz
 - F1429HB Variants: 4000MHz to 6000MHz
- Gain = 18dB at 3600MHz
- Noise figure = 4dB at 3600MHz
- OIP3 = +35dBm at 3600MHz
- Output P1dB = +18dBm at 3600MHz
- ICC = 70mA at 5V
- 2mA standby current
- 50Ω single-ended output impedances
- 100Ω differential input impedances

Product Options

Orderable Part ID	Part Status	Pkg. Type	Lead Count (#)	Frequency Range (MHz)	Temp. Grade	Carrier Type	Package	Buy Sample
F1429LBNELI	Active	VFQFPN	12	1400 - 3200	I	Cut Tape	Package Info	Get Samples Buy / Quote
F1429MBNELI	Active	VFQFPN	12	3000 - 4200	I	Cut Tape	Package Info	Get Samples Buy / Quote

Documentation & Downloads

Title	Other Languages	Type	Format	File Size	Date
Other					
RF Amplifiers with Zero-Distortion Technology	-	Overview	PDF	1.10 MB	May 9, 2019
IDT Products for Radio Applications	日本語	Product Brief	PDF	2.34 MB	Nov 29, 2016

News & Additional Resources

	Date
IDT Leads Growing AAS Market with Innovative Infrastructure Products for 4G and 5G Network Rollouts	Feb 28, 2019
Working to Achieve 5G Expectations	Dec 3, 2018
Fabs and Labs: IDT - Microwave Journal	Feb 15, 2017
Webinar: 5 RF Innovations You Must See: An In-Depth Look at IDT's Market-Leading RF Products	Jun 7, 2016
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Videos

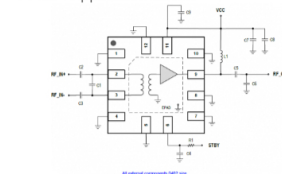
Zero-Distortion RF Technology by IDT



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Images

F1429 - Application Circuit



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