

Part No. 

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**SPF-3143 Datasheet (PDF) - SIRENZA MICRODEVICES**

Part No.	SPF-3143
Description	<a href="#">Low Noise pHEMT GaAs FET</a>
File Size	422.47 Kbytes
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Manufacturer	SIRENZA [SIRENZA MICRODEVICES]
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Автоматически

- **0.58 dB NF<sub>MIN</sub> @ 2 GHz**
- **21 dB G<sub>MAX</sub> @ 2 GHz**
- **+31 dBm OIP3 (5V,40mA)**
- **+18 dBm P1dB (5V,40mA)**
- **Low Current, Low Cost**
- **Apps circuits available for key bands**

**Applications**

- **Analog and Digital Wireless Systems**
- **3G, Cellular, PCS**
- **Fixed Wireless, Pager Systems**
- **Driver Stage for Low Power Applications**

Symbol	Device Characteristics	Test Condition V <sub>DS</sub> =5V, I <sub>DQ</sub> =40mA, 25C (unless otherwise noted)	Test Frequency	Units	Min	Typ	Max
G <sub>MAX</sub>	Maximum Available Gain	Z <sub>S</sub> =Z <sub>S</sub> <sup>*</sup> , Z <sub>L</sub> = Z <sub>L</sub> <sup>*</sup>	0.9GHz 1.9GHz	dB		23.3 19.9	
NF <sub>MIN</sub>	Minimum Noise Figure	Z <sub>S</sub> =Γ <sub>OPT</sub> , Z <sub>L</sub> = Z <sub>L</sub> <sup>*</sup>	0.9GHz 1.9GHz	dB		0.36 0.58	
S <sub>21</sub>	Insertion Gain	Z <sub>S</sub> =Z <sub>L</sub> =50Ω	0.9GHz	dB		20.1	
NF	Noise Figure	LNA Application Circuit Board	1.9GHz	dB		0.9	
Gain	Gain	LNA Application Circuit Board	1.9GHz	dB		15.1	
OIP <sub>3</sub>	Output 3rd Order Intercept Point	LNA Application Circuit Board	1.9GHz	dBm		31.0	
P <sub>1dB</sub>	Output 1dB Compression Point	LNA Application Circuit Board	1.9GHz	dBm		17.7	
V <sub>p</sub>	Pinchoff Voltage	V <sub>DS</sub> =2V, I <sub>DS</sub> =0.1mA		V	-1.4	-1.0	-0.6
I <sub>DSS</sub>	Saturated Drain Current	V <sub>DS</sub> =2V, V <sub>GS</sub> =0V		mA		180	
g <sub>m</sub>	Transconductance	V <sub>DS</sub> =2V, V <sub>GS</sub> =-0.3V		mS		210	
BV <sub>GSO</sub>	Gate-Source Breakdown Voltage	I <sub>GS</sub> =300uA, drain open		V		-10	-7
BV <sub>GDO</sub>	Gate-Drain Breakdown Voltage	I <sub>GD</sub> =300uA, source open		V		-12	-10
R <sub>th</sub>	Thermal Resistance	junction to lead		C/W		200	
V <sub>DS</sub>	Operating Voltage	drain-source		V			5.5
I <sub>DS</sub>	Operating Current	drain-source		mA			55

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Part No.	Description	Html View	Manufacturer
<a href="#">SPF-2086T</a>	<a href="#">Low Noise pHEMT GaAs FET 0.1 - 12 GHz Operation</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a>	SIRENZA MICRODEVICES
<a href="#">NE76084</a>	<a href="#">C to Ku BAND LOW NOISE AMPLIFIER N-CHANNEL GaAs MES FET</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	NEC
<a href="#">SPF-2086TK</a>	<a href="#">Low Noise pHEMT GaAs FET</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a>	List of Unclassified Manufacturers
<a href="#">HMC564</a>	<a href="#">GaAs PHEMT MMIC LOW NOISE AMPLIFIER 7 - 13.5 GHz</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Hittite Microwave Corporation
<a href="#">HMC566</a>	<a href="#">GaAs PHEMT MMIC LOW NOISE AMPLIFIER 29 - 36 GHz</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Hittite Microwave Corporation
<a href="#">HMC490LP5</a>	<a href="#">GaAs PHEMT MMIC LOW NOISE HIGH IP3 AMPLIFIER 12 - 16 GHz</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Hittite Microwave Corporation
<a href="#">HMC565</a>	<a href="#">GaAs PHEMT MMIC LOW NOISE AMPLIFIER 6 - 20 GHz</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Hittite Microwave Corporation
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<a href="#">HMC490</a>	<a href="#">GaAs PHEMT MMIC LOW NOISE HIGH IP3 AMPLIFIER 12 - 17 GHz</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Hittite Microwave Corporation

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