



Datasheet

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UHF power LDMOS transistor

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General description

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A 350 W LDMOS RF power transistor for broadcast transmitter applications and industrial applications. The excellent ruggedness of this device makes it ideal for digital and analog transmitter applications.
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Features and benefits

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- Compliant to Directive 2002/95/EC, regarding RoHS
- Designed for broadband operation (470 MHz to 860 MHz)
- Easy power control
- Excellent reliability
- Excellent ruggedness
- High efficiency
- High power gain
- Internal input matching for high gain and optimum broadband operation
- Optimum thermal behavior and reliability, $R_{th(j-c)} = 0.22$ K/W

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Applications

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- Communication transmitter applications in the UHF band
- Industrial applications in the UHF band

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Quick reference

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Symbol	Parameter	Conditions	Min	Typ/Nom	Max	Unit
f _{range}	frequency range		470		860	MHz
Mode of operation: DVB-T (8K OFDM)						
P _{L(AV)}	average output power	V _{DS} = 50 V; f = 858 MHz	70			W
G _p	power gain	V _{DS} = 50 V; f = 858 MHz	20	21		dB
η _D	drain efficiency	V _{DS} = 50 V; f = 858 MHz; I _{Dq} = 0.65 A	30	33		%
I _{Dq}	quiescent drain current	V _{DS} = 50 V		0.65		A
IMD _{shldr}	intermodulation distortion shoulder	f = 858 MHz		-31	-27	dBc
PAR	peak-to-average ratio	f = 858 MHz		8.2		dB

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Similar Products

Hide

BLF884P links to the similar products page containing an overview of products that are similar in function or related to the type number(s) as listed on this page. The similar products page includes products from the same catalog tree(s), relevant selection guides and products from the same functional category.
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Pinning information

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Pin	Symbol	Description	Simplified outline	Graphic symbol
1	D1	drain1		
2	D2	drain2		
3	G1	gate1		

4	G2	gate2
5	S	source

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Pricing/ordering/availability Hide

Type number	Ordering code(12NC)	Orderable part number	Region	Distributor	In stock	Order quantity	Inventory date	Buy online	Samples
BLF884P	9340 656 55112	BLF884P,112							not available

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Products/packages Hide

Type number	Orderable part number	Ordering code (12NC)	Product status	Package	Packing	Marking	ECCN
BLF884P	BLF884P,112	9340 656 55112	Development	SOT1121A (CDFM4)	Bulk Pack	Standard Marking	

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Quality/reliability/chemical content Hide

Type number	Orderable part number	Chemical content	RoHS	Leadfree conversion date	RHF	IFR (FIT)	MTBF (hours)	MSL	MSL LF
BLF884P	BLF884P,112	BLF884P		Always Pb-free				NA	NA

Quality and reliability disclaimer

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Design support Hide

Brochure
 Your partner in Mobile Communication Infrastructure design; High Performance RF for wireless infrastructure (v.1.0, 2011-05-23)

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Disclaimers Hide

General product disclaimer
Quality and reliability disclaimer