

Improved Standard Products®

dard Products [©]	
I _{DSS} <600 μA (4117DFN)	
1 (200 p.A. (4447DEN Corios)	i

DFN SERIES TOP VIEW D S S 5 8 7 6 5 411F YYWW 1 2 3 4 G LEADS 1, 2, 4, 5 & 7 - NO CONNECTION

4117DFN SERIES

MINIATURE/NON MAGNETIC 8-PIN DFN PACKAGE ULTRA-HIGH INPUT IMPEDANCE

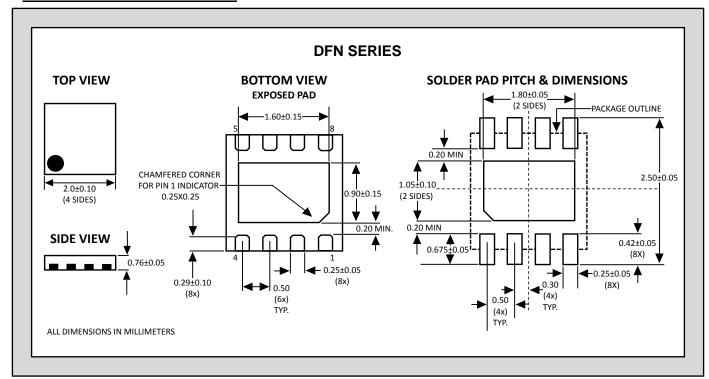
N-CHANNEL JFET AMPLIFIER

FEATURES LOW POWER IDSS<600 µA (4117DFN) MINIMUM CIRCUIT LOADING IGSS<200 pA (4117DFN Series) ABSOLUTE MAXIMUM RATINGS (NOTE 3) @ 25°C (unless otherwise noted) Gate-Source or Gate-Drain Voltage Gate-Current 50mA Total Device Dissipation (Derate 2.8mW/°C above 25°C) Storage Temperature Range -55°C to+150°C

ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

		4117DFN		4118DFN		4119DFN				
SYMBOL	CHARACTERISTIC	MIN	MAX	MIN	MAX	MIN	MAX	UNITS	CONDITION	NS
BV _{GSS}	Gate-Source Breakdown Voltage	-40		-40		-40		V	I _G =-1µA, V _{DS} =0	
V _{GS(off)}	Gate-Source Cutoff Voltage	-0.6	-1.8	-1	-3	-2	-6		V _{DS} =10V, I _D =1nA	
I _{DSS}	Saturation Drain Current (NOTE 2)	0.03	0.60	0.08	0.60	0.20	0.80	mA	V _{DS} =10V, V _{GS} =0	
Igss	Gate Reverse Current		-200		-200		-200	pA	V _{GS} =-10V, V _{DS} =0V	
g fs	Common-Source Forward Transconductance	70	450	80	650	100	700	0		f=1kHz
gos	Common-Source Output Conductance (NOTE 4)		3		5		10	μS		I= I NTIZ
Ciss	Common-Source Input Capacitance (NOTE 4)		3		3		3	۲	V _{DS} =10V, V _{GS} =0	
Crss	Common-Source Reverse Transfer Capacitance (NOTE 4)		1.5		1.5		1.5	pF		f=1MHz

STANDARD PACKAGE DIMENSIONS:



NOTES:

- Due to symmetrical geometry, these units may be operated with source and drain leads interchanged.
- This parameter is measured during a 2 ms interval 100 ms after power is applied. (Not a JEDEC condition.) Absolute maximum ratings are limiting values above which serviceability may be impaired.
- Not production tested, guaranteed by design.

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