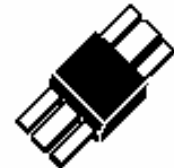


N-Channel Enhancement Mode Linear 175MHz RF MOSFET
 Low Capacitance Z-MOS™ MOSFET Process
 Optimized for Linear Operation
 Ideal for Class AB & C, Broadcast & Communications Applications

V_{DSS} = 500 V
I_{D25} = 10 A

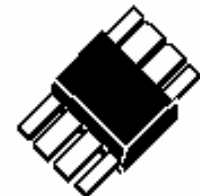
150V (operating)
300 & 550 Watts
175MHz

Note: All data is per the IXZ210N50L single ended device unless otherwise noted.



IXZ210N50L

Pout - 300 Watts CW
 Gain - 14dB @ 175MHz



IXZ2210N50L

Pout - 550 Watts CW
 Gain - 14dB @ 175MHz

Symbol	Test Conditions	Maximum Ratings	
V _{DSS}	T _J = 25°C to 150°C	500	V
V _{DGR}	T _J = 25°C to 150°C; R _{GS} = 1 MΩ	500	V
V _{GS}	Continuous	±20	V
V _{GSM}	Transient	±30	V
I _{D25}	T _c = 25°C	10	A
I _{DM}	T _c = 25°C, pulse width limited by T _{JM}	60	A
I _{AR}	T _c = 25°C	16	A
E _{AR}	T _c = 25°C	TBD	mJ
dv/dt	I _S ≤ I _{DM} , di/dt ≤ 100A/μs, V _{DD} ≤ V _{DSS} , T _J ≤ 150°C, R _G = 0.2Ω	5	V/ns
	I _S = 0	>200	V/ns

	IXZ210N50L	IXZ2210N50L	
P _{DC}	470	940	W
P _{DHS}	T _c = 25°C, Derate 6.0W/°C above 25°C	470	W
P _{DAMB}	T _c = 25°C	10	W
R _{thJC}	0.32	0.16	C/W
R _{thJS}	0.57	0.29	C/W

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		min.	typ.	max.	
V _{DSS}	V _{GS} = 0 V, I _D = 4 ma	500			V
V _{GS(th)}	V _{DS} = V _{GS} , I _D = 250μA	3.5	4.95	6.5	V
I _{GSS}	V _{GS} = ±20 V _{DC} , V _{DS} = 0			±100	nA
I _{DSS}	V _{DS} = 0.8V _{DSS} , V _{GS} =0			50 1	μA mA
R _{DS(on)}	V _{GS} = 20 V, I _D = 0.5I _{D25} Pulse test, t ≤ 300μs, duty cycle d ≤ 2%		1.0		Ω
g _{fs}	V _{DS} = 50 V, I _D = 0.5I _{D25} , pulse test		3.8		S
T _J		-55		+175	°C
T _{JM}				+175	°C
T _{stg}		-55		+ 175	°C
T _L	1.6mm(0.063 in) from case for 10 s		300		°C
Weight			4		g

Features

- Isolated Substrate
 - high isolation voltage (>2500V)
 - excellent thermal transfer
 - Increased temperature and power cycling capability
- IXYS RF Low Capacitance Z-MOS™ Process
- Very low insertion inductance (<2nH)
- No beryllium oxide (BeO) or other hazardous materials

Advantages

- High Performance RF Package
- Easy to mount—no insulators needed

(1) Thermal specifications are for the package, not per transistor

PRELIMINARY

Symbol	Test Conditions	Characteristic Values ($T_J = 25^\circ\text{C}$ unless otherwise specified)		
		min.	typ.	max.
C_{iss}		560	622	690 pF
C_{oss}	$V_{GS} = 0\text{ V}, V_{DS} = 0.8 V_{DSS(MAX)},$ $f = 1\text{ MHz}$	50	77	150 pF
C_{rss}		10	12	13 pF
C_{stray}	Back Metal to any Pin		21	pF
$T_{d(on)}$			4	ns
T_{on}	$V_{GS} = 15\text{ V}, V_{DS} = 0.8 V_{DSS}$ $I_D = 0.5 I_{DM}$		3	ns
$T_{d(off)}$	$R_G = 1\ \Omega$ (External)		4	ns
T_{off}			5	ns

VHF COMMUNICATIONS		min.	typ.	max.
Gps	VDD= 50V, Pout=200W, f=175MHz	13		16 db
Drain Efficiency	VDD= 50V, Pout=200W, f=175MHz	50		60 %
Load Mismatch	VDD= 150V, Pout=300W, f=175MHz			TBD

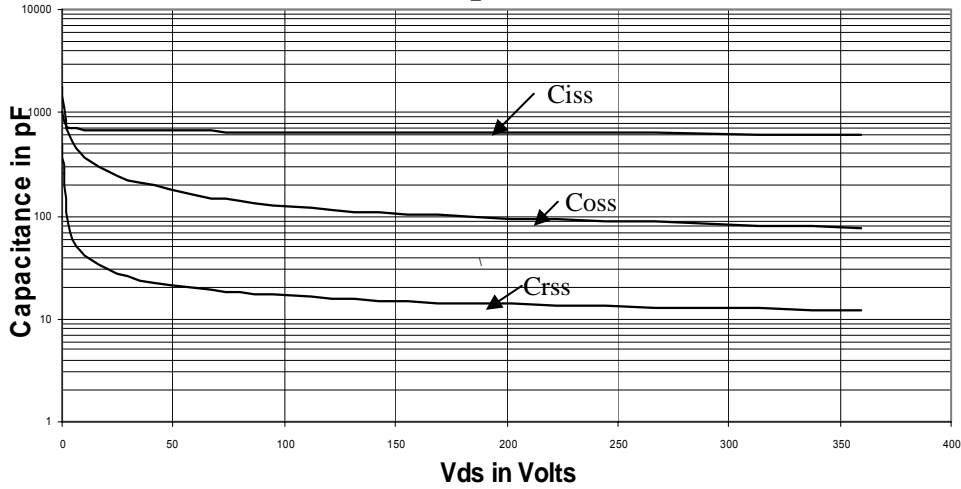
3T MRI		min.	typ.	max.
Gps(1)	VDD=150V, P _{OUT} =475W, F=128MHz	12	13	db
Drain Efficiency	VDD= 50V, Pout=200W, f=175MHz	60	65	%

Zin= 0.59-J0.90
 Zout= 5.86+J9.34

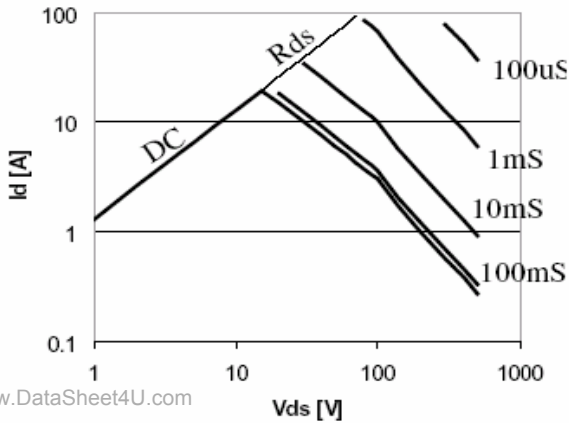
(1) - As measured under pulsed conditions (5 ms, 5%) with a gated Bias in Class AB, at P1dB.

PRELIMINARY

IXZ210N50L Capacitance verses Vds

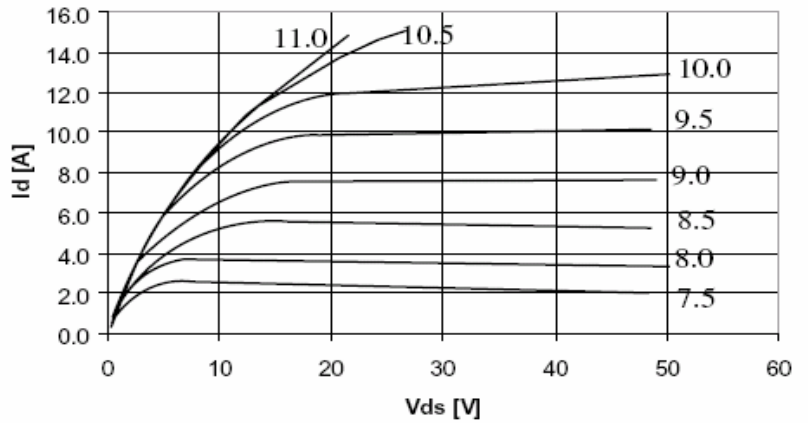


IXZ210N50L Safe Operating Area

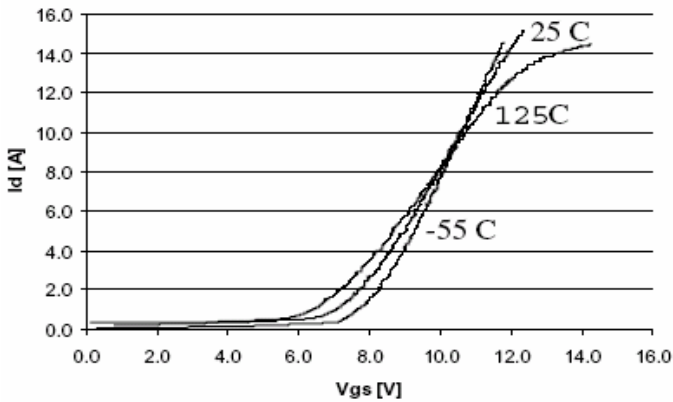


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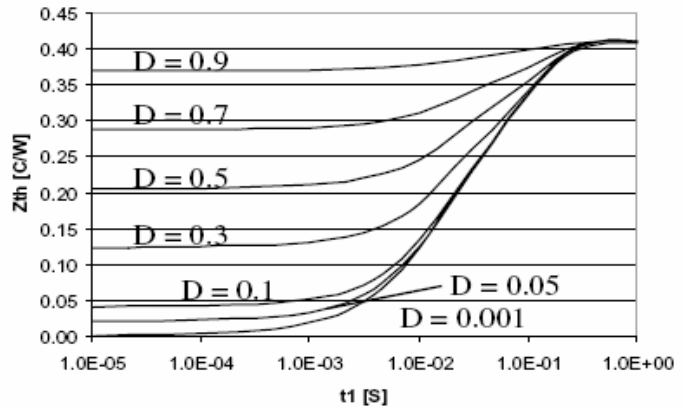
IXZ210N50L Id vs Vds Curves



IXZ210N50L Id vs Temp



IXZ210N50L Thermal Response



PRELIMINARY



**IXZ210N50L & IXZ2210N50L
RF Power MOSFET**

S-PARAMETERS for Ids = 200mA and Vds = 100V

F MHz	mag S11 ang S11		mag S12 ang S12		mag S21 ang S21		mag S22 ang S22	
2.00	1.00	-61.49	0.01	72.80	64.02	152.19	0.88	-51.42
2.56	0.95	-74.73	0.01	50.41	54.88	136.18	0.78	-61.85
3.12	0.92	-85.18	0.01	36.03	46.48	125.23	0.70	-69.85
3.68	0.90	-94.18	0.02	33.42	39.80	117.56	0.64	-76.52
4.24	0.89	-101.51	0.01	24.74	34.43	111.83	0.59	-81.83
4.80	0.88	-107.76	0.02	23.38	30.24	107.62	0.56	-86.25
5.36	0.88	-113.39	0.01	18.24	26.95	104.21	0.53	-90.12
5.92	0.87	-118.05	0.02	21.02	24.14	101.58	0.50	-93.86
6.48	0.87	-122.38	0.02	20.15	21.89	99.12	0.48	-96.91
7.04	0.87	-125.89	0.01	8.21	20.03	97.24	0.47	-99.89
7.60	0.87	-129.15	0.02	11.90	18.44	95.40	0.46	-102.23
8.16	0.87	-132.06	0.02	5.83	17.06	93.95	0.45	-104.53
8.72	0.88	-134.68	0.02	9.67	15.88	92.60	0.45	-106.30
9.28	0.88	-136.96	0.02	3.87	14.88	91.37	0.44	-107.93
9.84	0.88	-139.10	0.01	11.87	13.96	90.58	0.43	-109.34
10.40	0.88	-141.24	0.01	2.91	13.13	89.43	0.43	-110.69
10.96	0.88	-142.85	0.01	5.48	12.44	88.35	0.43	-112.27
11.52	0.88	-144.45	0.01	3.66	11.77	87.69	0.43	-113.80
12.08	0.88	-145.98	0.01	-0.44	11.15	86.75	0.43	-114.55
12.64	0.88	-147.31	0.01	-1.43	10.63	85.86	0.43	-115.60
13.20	0.89	-148.50	0.01	4.33	10.16	85.17	0.43	-116.56
13.76	0.89	-149.72	0.02	7.20	9.71	84.54	0.43	-117.37
14.32	0.89	-150.84	0.01	3.37	9.29	83.87	0.43	-118.56
14.88	0.89	-151.71	0.01	6.52	8.94	83.32	0.44	-118.83
15.44	0.89	-152.76	0.01	6.34	8.58	82.74	0.44	-119.56
16.00	0.89	-152.79	0.01	4.79	8.57	82.70	0.44	-119.64
16.56	0.89	-153.60	0.01	-2.91	8.26	82.15	0.44	-120.22
17.12	0.89	-154.31	0.01	4.60	7.96	81.57	0.44	-120.79
17.68	0.89	-155.09	0.01	3.83	7.68	81.02	0.45	-121.37
18.24	0.89	-155.97	0.01	-3.23	7.43	80.50	0.45	-121.90
18.80	0.89	-156.64	0.01	2.53	7.19	79.91	0.46	-122.45
19.36	0.90	-157.26	0.01	-7.10	6.95	79.33	0.46	-123.00
19.92	0.90	-157.88	0.02	2.86	6.74	78.75	0.46	-123.39
20.48	0.90	-158.51	0.01	-2.49	6.55	78.27	0.47	-123.87
21.04	0.90	-159.06	0.01	0.66	6.36	77.80	0.47	-124.24
21.60	0.90	-159.38	0.01	1.39	6.17	77.35	0.48	-124.84
22.16	0.90	-160.04	0.01	-0.33	6.01	76.69	0.48	-125.20
22.72	0.90	-160.47	0.01	0.37	5.85	76.38	0.48	-125.64
23.28	0.90	-160.97	0.01	-1.11	5.70	75.91	0.49	-126.10
23.84	0.90	-161.44	0.01	-4.88	5.55	75.27	0.49	-126.27
24.40	0.90	-161.68	0.01	-1.29	5.41	74.80	0.50	-126.56
24.96	0.90	-162.29	0.01	-0.45	5.28	74.39	0.50	-126.29
25.52	0.90	-162.56	0.02	-2.68	5.16	73.82	0.51	-127.36
26.08	0.90	-162.98	0.01	-5.35	5.04	73.46	0.51	-127.78
26.64	0.90	-163.29	0.01	-4.70	4.92	72.84	0.52	-128.36
27.20	0.90	-163.81	0.01	-3.38	4.82	72.28	0.52	-128.52
27.76	0.91	-164.05	0.01	-7.12	4.71	71.75	0.52	-128.88
28.32	0.90	-164.26	0.01	-1.90	4.59	71.36	0.53	-129.17
28.88	0.91	-164.63	0.01	-1.98	4.51	70.81	0.53	-129.54
29.44	0.91	-164.83	0.01	-2.49	4.42	70.42	0.54	-129.83
30.00	0.91	-165.24	0.01	-3.00	4.31	69.85	0.54	-130.17

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IXZ210N50L & IXZ2210N50L
RF Power MOSFET

S-PARAMETERS for Ids = 500mA and Vds = 85V

F MHz	mag S11 ang S11		mag S12 ang S12		mag S21 ang S21		mag S22 ang S22	
2.00	1.00	-75.60	0.01	51.67	98.32	135.58	0.83	-77.19
2.56	0.92	-88.14	0.01	41.71	76.78	120.80	0.73	-90.21
3.12	0.89	-97.38	0.01	26.40	61.88	111.89	0.65	-99.74
3.68	0.87	-105.23	0.01	20.78	51.39	105.98	0.61	-107.26
4.24	0.87	-111.43	0.01	17.69	43.57	101.80	0.57	-113.20
4.80	0.87	-116.93	0.01	13.57	37.75	98.72	0.55	-118.05
5.36	0.87	-121.73	0.01	11.35	33.33	96.32	0.53	-121.94
5.92	0.87	-125.77	0.01	14.74	29.65	94.63	0.52	-125.82
6.48	0.88	-129.43	0.01	18.53	26.68	92.99	0.51	-128.85
7.04	0.88	-132.51	0.01	5.00	24.33	91.67	0.51	-131.50
7.60	0.89	-135.38	0.01	11.59	22.32	90.53	0.50	-133.72
8.16	0.89	-137.91	0.01	4.28	20.59	89.62	0.50	-135.79
8.72	0.90	-140.21	0.01	2.67	19.14	88.81	0.50	-137.30
9.28	0.90	-142.15	0.01	-0.50	17.89	87.97	0.49	-138.59
9.84	0.91	-144.08	0.01	7.28	16.77	87.74	0.49	-139.86
10.40	0.91	-145.79	0.01	3.08	15.74	86.98	0.49	-140.96
10.96	0.91	-147.24	0.01	4.92	14.91	86.27	0.49	-142.13
11.52	0.91	-148.71	0.01	4.59	14.13	85.96	0.49	-143.40
12.08	0.92	-150.00	0.01	0.05	13.37	85.37	0.49	-143.90
12.64	0.92	-151.28	0.01	-3.47	12.74	84.86	0.49	-144.57
13.20	0.92	-152.29	0.01	3.75	12.20	84.42	0.49	-145.23
13.76	0.93	-153.33	0.01	6.98	11.65	84.06	0.49	-145.74
14.32	0.93	-154.29	0.01	-1.36	11.15	83.58	0.49	-146.57
14.88	0.93	-155.22	0.01	7.91	10.75	83.43	0.49	-146.58
15.44	0.93	-156.05	0.01	6.46	10.32	83.03	0.50	-147.08
16.00	0.93	-156.02	0.01	4.31	10.32	83.01	0.50	-147.08
16.56	0.93	-156.80	0.01	3.45	9.95	82.75	0.50	-147.29
17.12	0.93	-157.45	0.01	3.31	9.60	82.30	0.50	-147.77
17.68	0.93	-158.24	0.01	7.43	9.26	81.97	0.50	-148.05
18.24	0.93	-159.00	0.01	-0.33	8.98	81.69	0.50	-148.23
18.80	0.93	-159.52	0.01	8.91	8.71	81.27	0.51	-148.60
19.36	0.94	-160.13	0.01	-5.90	8.41	80.91	0.51	-148.70
19.92	0.94	-160.64	0.01	6.68	8.18	80.48	0.51	-148.83
20.48	0.94	-161.22	0.01	6.33	7.96	80.17	0.51	-149.05
21.04	0.94	-161.70	0.01	13.23	7.74	79.82	0.51	-149.25
21.60	0.94	-162.01	0.01	10.44	7.51	79.49	0.52	-149.55
22.16	0.94	-162.64	0.01	4.32	7.33	79.06	0.52	-149.56
22.72	0.94	-163.02	0.01	6.04	7.14	78.83	0.52	-149.69
23.28	0.94	-163.36	0.01	8.23	6.97	78.51	0.52	-149.75
23.84	0.94	-163.92	0.01	4.67	6.80	77.96	0.53	-149.91
24.40	0.94	-164.13	0.01	3.79	6.62	77.61	0.53	-149.91
24.96	0.94	-164.61	0.01	7.04	6.48	77.41	0.53	-150.19
25.52	0.95	-164.83	0.01	4.29	6.34	76.89	0.53	-150.00
26.08	0.94	-165.25	0.01	1.02	6.20	76.63	0.53	-150.21
26.64	0.95	-165.49	0.01	1.65	6.06	76.12	0.54	-150.41
27.20	0.95	-165.87	0.01	4.26	5.95	75.63	0.54	-150.40
27.76	0.95	-166.18	0.01	4.00	5.82	75.23	0.54	-150.46
28.32	0.95	-166.42	0.01	11.55	5.68	74.90	0.55	-150.43
28.88	0.95	-166.71	0.01	9.83	5.58	74.44	0.55	-150.48
29.44	0.95	-166.89	0.01	5.17	5.47	74.11	0.55	-150.57
30.00	0.95	-167.21	0.01	2.61	5.35	73.63	0.55	-150.69

PRELIMINARY



**IXZ210N50L & IXZ2210N50L
RF Power MOSFET**

S-PARAMETERS for Ids = 200mA and Vds = 150V

FREQ	mag S11 ang S11	mag S21 ang S21	mag S12 ang S12	mag S22 ang S22
30.00	0.985 / -164	0.027 / -0.428	2.988 / 87.481	0.469 / -104.432
40.00	0.972 / -169.4	0.028 / -12.122	2.418 / 75.537	0.627 / -110.792
50.00	0.963 / -172.1	0.023 / -24.503	1.824 / 62.952	0.756 / -124.821
60.00	0.963 / -174.1	0.020 / -30.560	1.406 / 55.303	0.806 / -134.397
70.00	0.963 / -175.8	0.016 / -31.162	1.129 / 49.494	0.835 / -141.129
80.00	0.965 / -177.1	0.013 / -30.040	0.929 / 44.780	0.857 / -146.214
90.00	0.967 / -178.3	0.010 / -27.418	0.781 / 40.232	0.872 / -150.048
100.00	0.968 / -179.3	0.008 / -19.867	0.667 / 36.246	0.886 / -153.386
110.00	0.969 / 179.75	0.006 / -2.754	0.574 / 32.733	0.898 / -155.949
120.00	0.970 / 178.99	0.006 / 8.322	0.502 / 29.717	0.906 / -157.947
130.00	0.972 / 178.23	0.006 / 27.617	0.441 / 26.947	0.912 / -160.096
140.00	0.971 / 177.29	0.006 / 44.780	0.393 / 24.016	0.921 / -162.016
150.00	0.972 / 176.6	0.008 / 59.471	0.350 / 21.579	0.924 / -163.648
160.00	0.972 / 175.9	0.009 / 63.960	0.316 / 19.409	0.929 / -165.262
170.00	0.973 / 175.24	0.010 / 70.370	0.285 / 17.254	0.936 / -166.491
180.00	0.974 / 174.48	0.012 / 69.920	0.258 / 15.438	0.940 / -167.653
190.00	0.975 / 173.97	0.013 / 72.865	0.237 / 14.006	0.943 / -168.645
200.00	0.975 / 173.41	0.015 / 75.453	0.216 / 12.167	0.949 / -169.803
210.00	0.975 / 172.77	0.017 / 76.271	0.198 / 10.962	0.952 / -170.829
220.00	0.975 / 172.25	0.018 / 77.550	0.183 / 10.057	0.952 / -171.632
230.00	0.975 / 171.67	0.020 / 77.798	0.170 / 8.978	0.956 / -172.337
240.00	0.973 / 171.1	0.021 / 79.336	0.157 / 8.367	0.958 / -172.989
250.00	0.976 / 170.67	0.022 / 78.614	0.147 / 7.595	0.960 / -173.679
260.00	0.976 / 170.24	0.023 / 79.747	0.138 / 6.905	0.960 / -174.288
270.00	0.975 / 169.51	0.025 / 78.724	0.129 / 6.519	0.964 / -174.901
280.00	0.976 / 169.12	0.027 / 78.855	0.120 / 6.542	0.961 / -175.772
290.00	0.974 / 168.54	0.028 / 79.646	0.114 / 6.613	0.962 / -176.021
300.00	0.974 / 168.04	0.030 / 79.190	0.106 / 6.674	0.964 / -176.781
310.00	0.976 / 167.42	0.031 / 79.014	0.100 / 6.851	0.963 / -177.411
320.00	0.976 / 166.98	0.033 / 78.105	0.095 / 7.030	0.964 / -178.015
330.00	0.976 / 166.5	0.034 / 78.442	0.090 / 7.987	0.967 / -178.532
340.00	0.976 / 165.94	0.035 / 77.971	0.085 / 8.645	0.968 / -179.04
350.00	0.976 / 165.52	0.037 / 77.664	0.081 / 9.272	0.970 / -179.518
360.00	0.976 / 165.04	0.038 / 77.268	0.078 / 10.502	0.972 / -179.938
370.00	0.976 / 164.52	0.040 / 76.920	0.075 / 11.048	0.973 / 179.613
380.00	0.975 / 164	0.041 / 76.879	0.072 / 12.402	0.974 / 179.206
390.00	0.975 / 163.53	0.043 / 76.965	0.070 / 14.281	0.974 / 178.814
400.00	0.974 / 163.07	0.045 / 75.997	0.068 / 15.804	0.975 / 178.486
410.00	0.974 / 162.55	0.046 / 75.803	0.064 / 16.417	0.976 / 178.031
420.00	0.974 / 162.01	0.048 / 75.481	0.064 / 19.270	0.976 / 177.687
430.00	0.974 / 161.52	0.050 / 75.195	0.063 / 20.871	0.977 / 177.312
440.00	0.974 / 161.01	0.052 / 74.760	0.063 / 22.992	0.978 / 177.021
450.00	0.974 / 160.48	0.053 / 74.080	0.061 / 24.363	0.978 / 176.675
460.00	0.973 / 159.97	0.055 / 74.002	0.061 / 26.305	0.978 / 176.295
470.00	0.973 / 159.44	0.057 / 73.527	0.061 / 28.226	0.979 / 175.969
480.00	0.973 / 158.91	0.059 / 73.280	0.061 / 30.056	0.980 / 175.612
490.00	0.972 / 158.36	0.061 / 72.979	0.061 / 32.020	0.979 / 175.328
500.00	0.972 / 157.82	0.063 / 72.422	0.061 / 33.671	0.979 / 175.012

PRELIMINARY


IXZ210N50L & IXZ2210N50L
RF Power MOSFET
S-PARAMETERS for $I_{ds} = 500\text{mA}$ and $V_{ds} = 150\text{V}$

F MHz	mag S11 ang S11	mag S12 ang S12	mag S21 ang S21	mag S22 ang S22
30.00	0.972 / -166.83	0.024 / 1.31	4.123 / 80.919	0.437 / -122.05
40.00	0.961 / -171.25	0.024 / -9.42	3.213 / 71.151	0.550 / -122.51
50.00	0.953 / -173.48	0.021 / -20.57	2.409 / 60.370	0.679 / -131.24
60.00	0.954 / -175.24	0.018 / -25.77	1.852 / 53.746	0.745 / -138.67
70.00	0.956 / -176.58	0.014 / -25.66	1.479 / 48.975	0.784 / -144.34
80.00	0.959 / -177.85	0.012 / -24.77	1.214 / 44.916	0.815 / -148.72
90.00	0.962 / -178.91	0.009 / -16.63	1.021 / 41.457	0.837 / -152.18
100.00	0.963 / -179.92	0.008 / -10.71	0.876 / 38.215	0.855 / -155.14
110.00	0.965 / 179.28	0.007 / 3.84	0.760 / 35.387	0.871 / -157.52
120.00	0.966 / 178.51	0.006 / 21.43	0.669 / 32.840	0.881 / -159.44
130.00	0.968 / 177.76	0.007 / 33.62	0.590 / 30.369	0.890 / -161.35
140.00	0.968 / 176.94	0.007 / 50.63	0.530 / 27.881	0.899 / -163.19
150.00	0.969 / 176.26	0.009 / 57.23	0.476 / 25.671	0.902 / -164.66
160.00	0.970 / 175.50	0.011 / 67.29	0.431 / 23.797	0.910 / -166.27
170.00	0.969 / 174.91	0.011 / 68.91	0.392 / 21.572	0.918 / -167.38
180.00	0.970 / 174.21	0.013 / 70.26	0.359 / 19.869	0.922 / -168.47
190.00	0.971 / 173.68	0.014 / 73.60	0.330 / 18.274	0.926 / -169.38
200.00	0.971 / 173.07	0.015 / 74.18	0.299 / 17.196	0.932 / -170.41
210.00	0.971 / 172.50	0.017 / 74.24	0.280 / 14.998	0.937 / -171.32
220.00	0.972 / 171.86	0.019 / 75.56	0.260 / 13.641	0.938 / -172.13
230.00	0.972 / 171.45	0.019 / 77.06	0.242 / 12.329	0.942 / -172.75
240.00	0.972 / 170.91	0.021 / 76.73	0.225 / 11.133	0.945 / -173.40
250.00	0.976 / 170.36	0.023 / 77.85	0.212 / 9.768	0.947 / -174.06
260.00	0.974 / 170.07	0.024 / 78.35	0.199 / 9.038	0.948 / -174.64
270.00	0.971 / 169.36	0.025 / 78.20	0.187 / 8.074	0.953 / -175.13
280.00	0.972 / 168.83	0.027 / 77.62	0.176 / 7.216	0.952 / -175.79
290.00	0.971 / 168.31	0.029 / 78.26	0.165 / 6.391	0.952 / -176.24
300.00	0.972 / 167.79	0.030 / 78.12	0.156 / 6.231	0.953 / -176.96
310.00	0.973 / 167.33	0.031 / 78.03	0.149 / 5.587	0.952 / -177.58
320.00	0.973 / 166.83	0.033 / 77.49	0.140 / 5.009	0.954 / -178.17
330.00	0.972 / 166.36	0.034 / 77.15	0.133 / 5.291	0.957 / -178.68
340.00	0.972 / 165.83	0.036 / 76.97	0.126 / 4.941	0.959 / -179.18
350.00	0.974 / 165.40	0.037 / 77.21	0.120 / 4.956	0.960 / -179.63
360.00	0.973 / 164.91	0.039 / 76.74	0.115 / 4.758	0.963 / 179.99
370.00	0.974 / 164.44	0.040 / 76.57	0.110 / 4.702	0.964 / 179.59
380.00	0.972 / 163.91	0.042 / 76.23	0.105 / 5.234	0.966 / 179.22
390.00	0.972 / 163.46	0.043 / 75.70	0.101 / 6.041	0.966 / 178.82
400.00	0.971 / 162.98	0.045 / 75.39	0.097 / 6.513	0.968 / 178.45
410.00	0.971 / 162.47	0.046 / 75.27	0.094 / 5.051	0.968 / 178.05
420.00	0.971 / 161.95	0.048 / 74.85	0.090 / 7.829	0.969 / 177.73
430.00	0.971 / 161.46	0.050 / 74.48	0.087 / 8.676	0.971 / 177.35
440.00	0.971 / 160.95	0.051 / 74.33	0.084 / 9.387	0.973 / 177.04
450.00	0.970 / 160.44	0.053 / 73.64	0.082 / 11.009	0.972 / 176.73
460.00	0.970 / 159.94	0.055 / 73.50	0.080 / 11.543	0.972 / 176.37
470.00	0.970 / 159.42	0.057 / 73.10	0.078 / 13.145	0.973 / 176.05
480.00	0.970 / 158.90	0.059 / 72.90	0.077 / 14.432	0.974 / 175.71
490.00	0.969 / 158.36	0.061 / 72.67	0.075 / 16.109	0.973 / 175.41
500.00	0.969 / 157.83	0.063 / 71.99	0.074 / 17.437	0.974 / 175.12

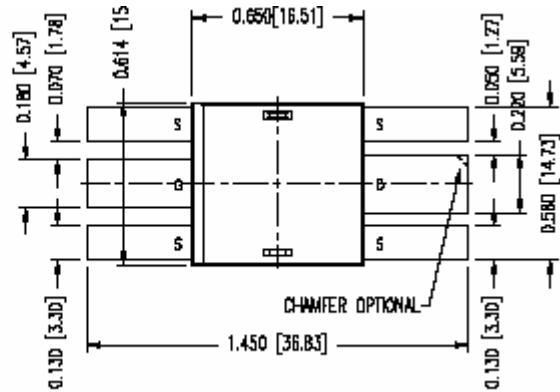
PRELIMINARY

S-PARAMETERS for $I_{ds} = 1A$ and $V_{ds} = 150V$

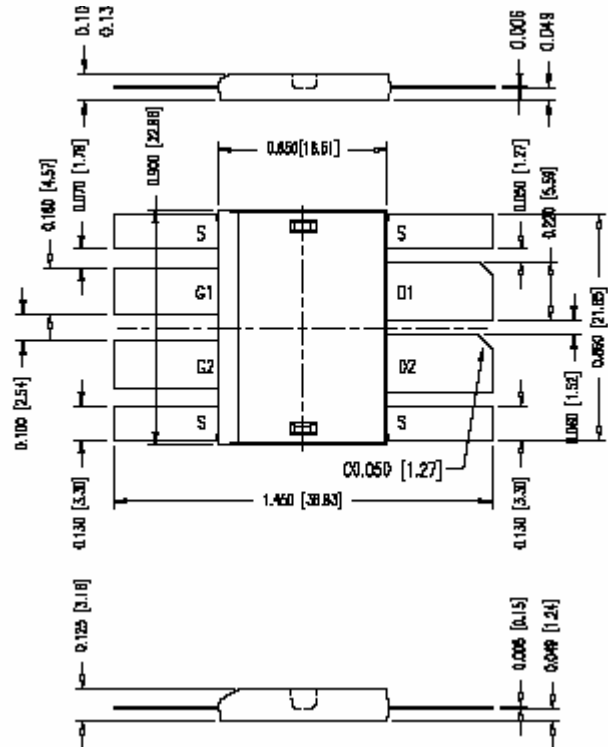
F MHz	mag S11 ang S11	mag S12 ang S12	mag S21 ang S21	mag S22 ang S22
30	0.963 / -169.123	0.020 / 3.477	4.942 / 77.820	0.435 / -137.513
40	0.951 / -172.917	0.021 / -4.926	3.815 / 69.106	0.505 / -134.339
50	0.943 / -174.788	0.018 / -12.764	2.890 / 58.963	0.618 / -137.849
60	0.946 / -176.203	0.016 / -18.683	2.230 / 52.200	0.687 / -142.755
70	0.948 / -177.357	0.014 / -16.858	1.779 / 47.123	0.733 / -147.101
80	0.952 / -178.457	0.012 / -16.420	1.458 / 43.025	0.772 / -150.627
90	0.955 / -179.449	0.009 / -10.102	1.220 / 39.458	0.802 / -153.615
100	0.957 / 179.705	0.008 / -1.389	1.038 / 36.186	0.824 / -156.184
110	0.960 / 178.936	0.007 / 9.658	0.894 / 33.271	0.843 / -158.326
120	0.962 / 178.170	0.007 / 24.560	0.783 / 30.862	0.858 / -160.076
130	0.963 / 177.479	0.007 / 36.896	0.688 / 28.701	0.870 / -161.908
140	0.964 / 176.627	0.008 / 51.624	0.615 / 26.345	0.880 / -163.607
150	0.965 / 175.974	0.009 / 60.710	0.551 / 24.277	0.886 / -165.069
160	0.966 / 175.320	0.011 / 64.471	0.498 / 22.370	0.895 / -166.662
170	0.966 / 174.688	0.012 / 68.556	0.451 / 20.406	0.904 / -167.7
180	0.968 / 174.005	0.013 / 70.179	0.415 / 18.797	0.909 / -168.732
190	0.969 / 173.455	0.014 / 72.336	0.383 / 17.392	0.915 / -169.635
200	0.969 / 172.895	0.016 / 75.100	0.350 / 15.646	0.921 / -170.668

PRELIMINARY

IXZ210N50L



IXZ2210N50L



PRELIMINARY

IXYS RF reserves the right to change limits, test conditions and dimensions.

IXYS RF MOSFETS are covered by one or more of the following U.S. patents:

4,835,592	4,860,072	4,881,106	4,891,686	4,931,844	5,017,508
5,034,796	5,049,961	5,063,307	5,187,117	5,237,481	5,486,715
5,381,025	5,640,045	6,404,065	6,583,505	6,710,463	6,727,585