



RD60HUF1



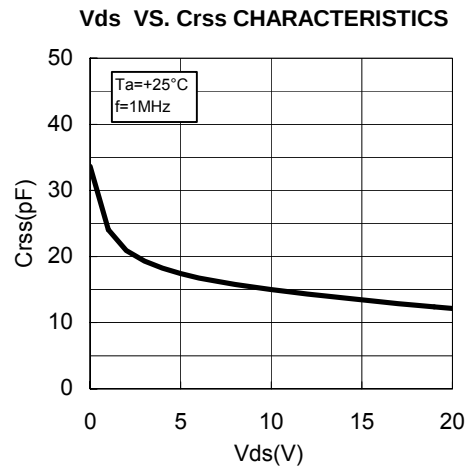
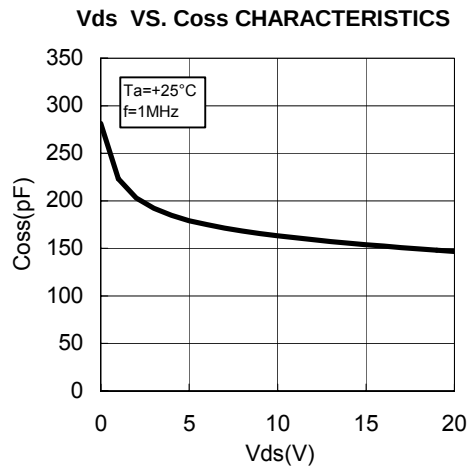
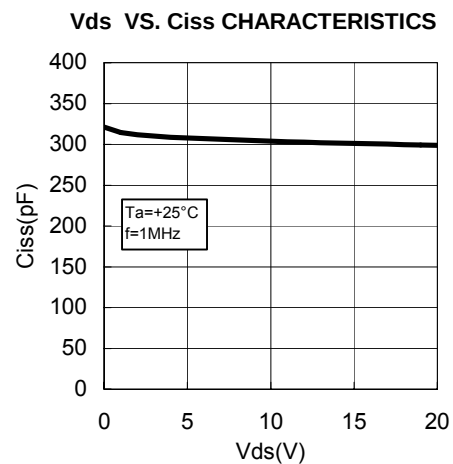
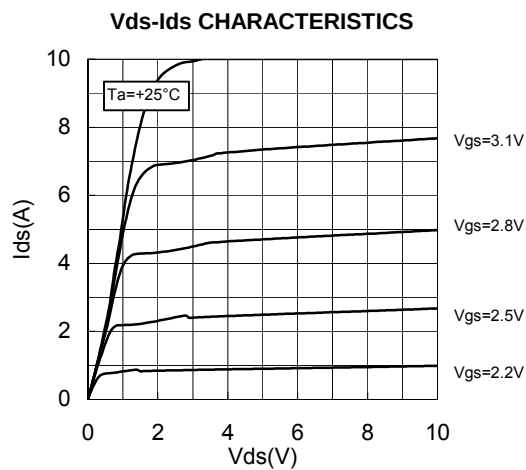
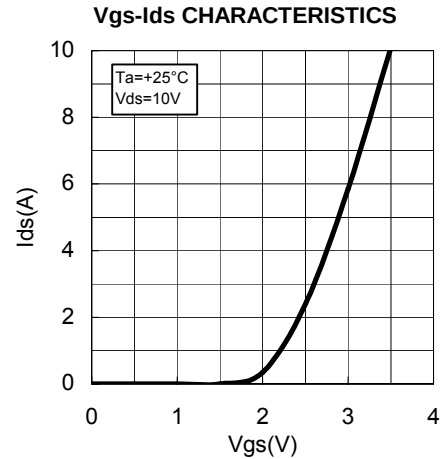
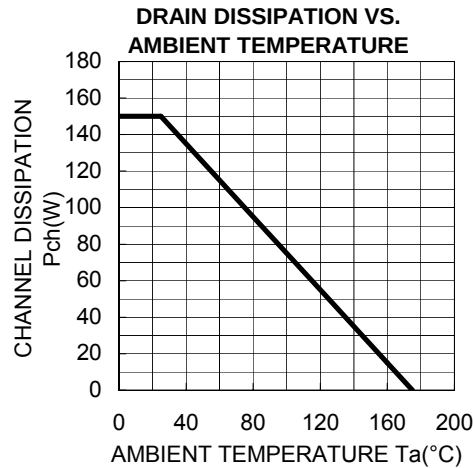
ELECTROSTATIC SENSITIVE DEVICE
OBSERVE HANDLING PRECAUTIONS

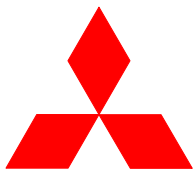
MITSUBISHI RF POWER MOS FET

RD60HUF1

RoHS Compliance, Silicon MOSFET Power Transistor 520MHz,60W

TYPICAL CHARACTERISTICS





ELECTROSTATIC SENSITIVE DEVICE
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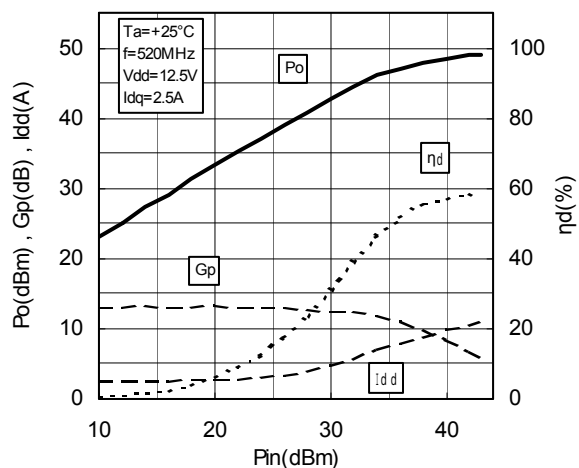
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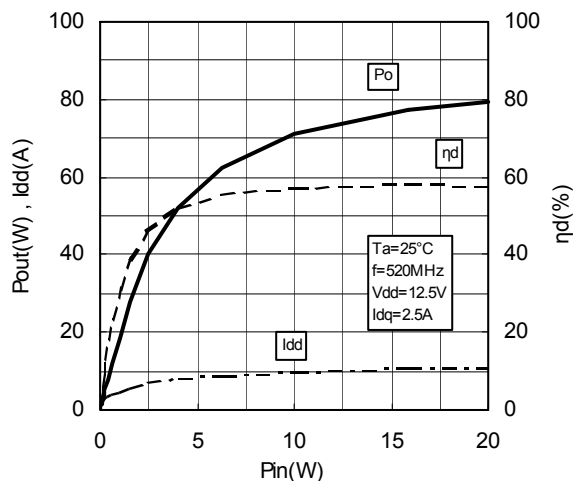
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TYPICAL CHARACTERISTICS

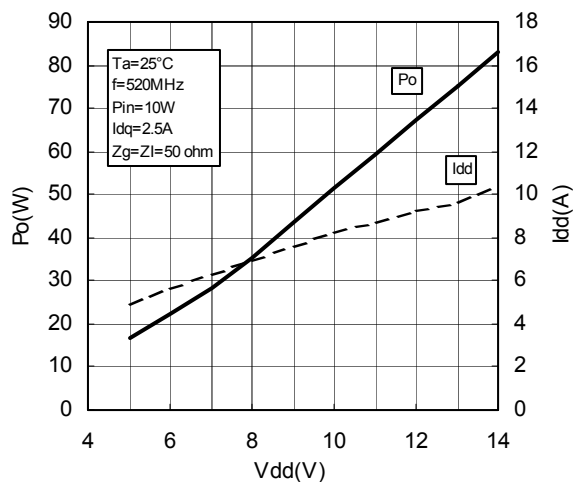
Pin-Po CHARACTERISTICS



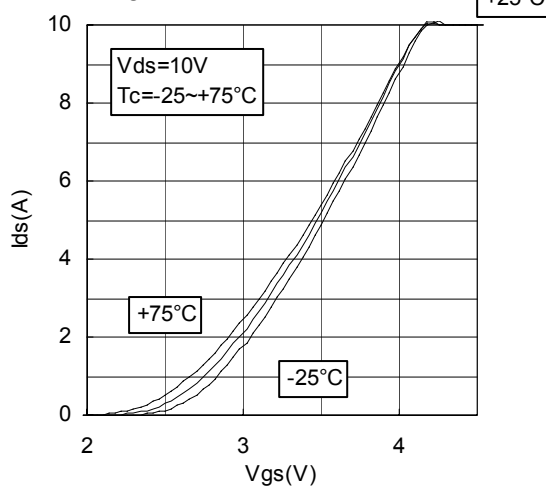
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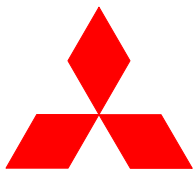


Vdd-Po CHARACTERISTICS



Vgs-Ids CHARACTERISTICS 2





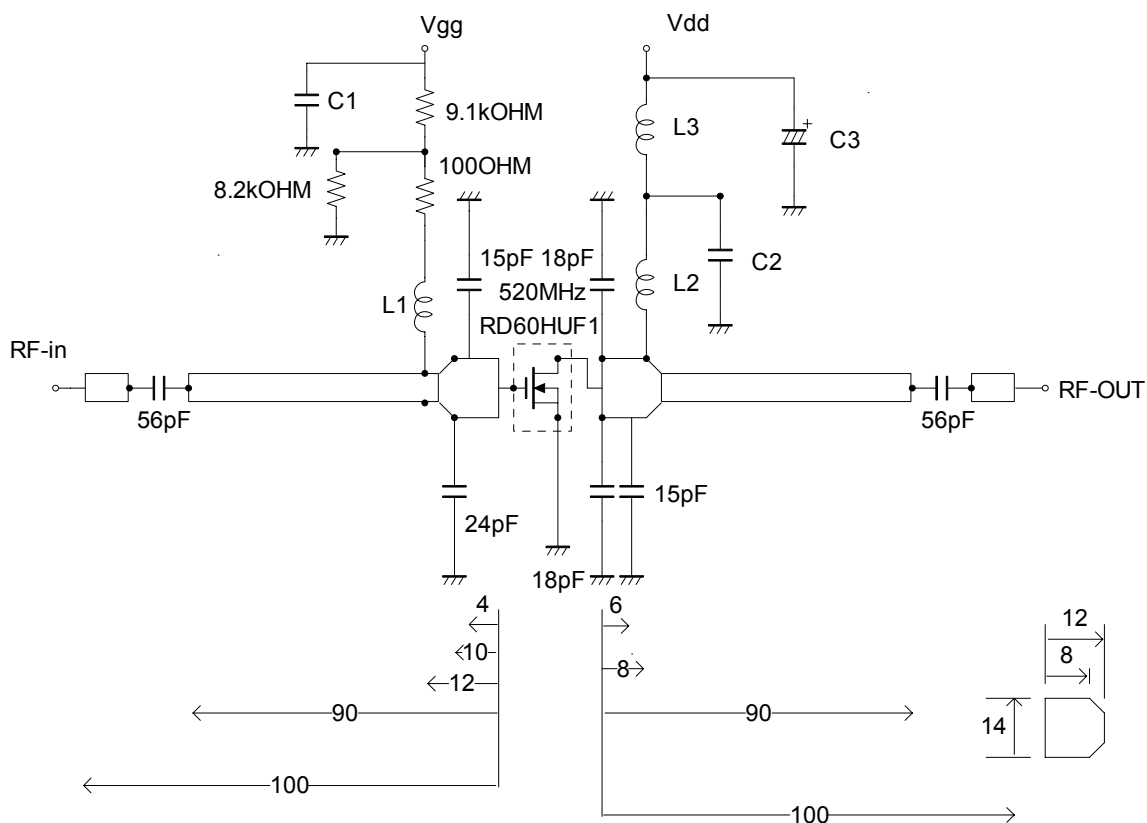
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TEST CIRCUIT(f=520MHz)



C1:2200pF 10uf in parallel

C2:2200pF*2 in parallel

C3:2200pF,330uF in parallel

L1:4Turns,I.D6mm,D1.6mm P=1 silver plateted copper wire

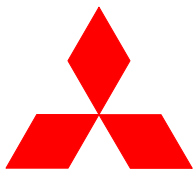
L2:2Turns,I.D6mm,D1.6mm P=1 silver plateted copper wire

L3:4Turns,I.D6mm,D1.6mm P=1 silver plateted copper wire

Note:Board material-Teflon substrate

micro strip line width=4.2mm/50OHM,er:2.7,t=1.6mm

Dimensions:mm



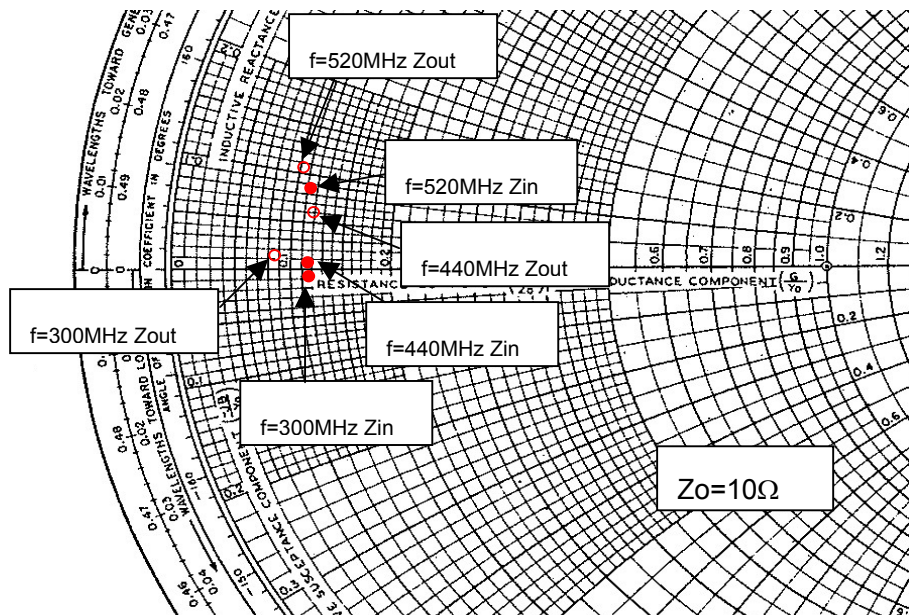
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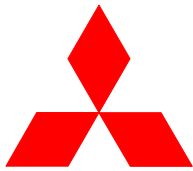
RoHS Compliance, Silicon MOSFET Power Transistor 520MHz,60W

INPUT/OUTPUT IMPEDANCE VS.FREQUENCY CHARACTERISTICS



Zin , Zout

f (MHz)	Zin (ohm)	Zout (ohm)	Conditions
300	1.16-j0.06	0.83+j0.14	Po=70W, Vdd=12.5V, Pin=10W
440	1.18+j0.09	1.20+j0.58	Po=65W, Vdd=12.5V, Pin=10W
520	1.15+j0.86	1.05+j1.09	Po=60W, Vdd=12.5V, Pin=10W



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RD60HUF1 S-PARAMETER DATA (@Vdd=12.5V, Id=500mA)

Freq. [MHz]	S11		S21		S12		S22	
	(mag)	(ang)	(mag)	(ang)	(mag)	(ang)	(mag)	(ang)
10	0.909	-156.8	30.933	98.0	0.012	8.6	0.788	-166.6
50	0.910	-177.1	6.014	75.6	0.011	-10.8	0.811	-177.2
100	0.923	178.6	2.796	60.1	0.010	-25.0	0.845	-178.5
150	0.935	175.5	1.678	46.1	0.008	-32.2	0.869	178.3
175	0.944	173.9	1.351	40.5	0.008	-39.0	0.877	177.0
200	0.949	172.5	1.109	36.2	0.007	-41.7	0.893	175.6
250	0.957	169.2	0.804	27.2	0.005	-42.3	0.930	172.3
300	0.961	166.2	0.583	18.3	0.004	-40.2	0.930	169.2
350	0.964	163.3	0.450	12.0	0.003	-21.8	0.945	166.0
400	0.969	159.8	0.368	6.8	0.002	-4.8	0.957	162.4
450	0.974	157.0	0.296	2.3	0.002	38.1	0.956	159.5
500	0.975	153.8	0.238	-3.0	0.003	38.4	0.962	156.5
550	0.977	151.0	0.209	-6.1	0.003	49.4	0.965	153.4
600	0.978	147.8	0.178	-14.1	0.005	53.8	0.963	150.1
650	0.982	145.1	0.155	-17.5	0.006	54.4	0.971	147.4
700	0.983	141.9	0.136	-19.6	0.006	50.3	0.973	144.5
750	0.979	139.5	0.113	-17.5	0.007	51.8	0.972	141.5
800	0.982	136.7	0.104	-20.2	0.009	56.2	0.980	138.4
850	0.985	133.7	0.103	-33.7	0.009	49.6	0.978	136.2
900	0.980	130.9	0.084	-27.4	0.010	46.5	0.975	133.1
950	0.981	128.0	0.083	-35.1	0.010	47.2	0.983	130.4
1000	0.981	124.9	0.071	-28.7	0.012	43.8	0.984	128.0



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—————Keep safety first in your circuit designs! —————

Mitsubishi Electric Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of non-flammable material or (iii) prevention against any malfunction or mishap.