

< Silicon RF Power MOS FET (Discrete) >

RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

DESCRIPTION

RD35HUF2 is MOS FET type transistor specifically designed for VHF/UHF RF power amplifiers applications.

FEATURES

1. Supply with Tape and Reel. 500 Units per Reel.
2. Employing Mold Package
3. High Power and High Efficiency
 $P_{out}=43W_{typ}$, Drain Effi.=60% $_{typ}$
@ $V_{ds}=12.5V$ $I_{dq}=0.5A$ $P_{in}=3.0W$ $f=530MHz$
 $P_{out}=45W_{typ}$, Drain Effi.=72% $_{typ}$
@ $V_{ds}=12.5V$ $I_{dq}=1.0A$ $P_{in}=3.0W$ $f=175MHz$
4. Integrated gate protection diode

APPLICATION

For output stage of high power amplifiers in VHF/UHF band mobile radio sets.

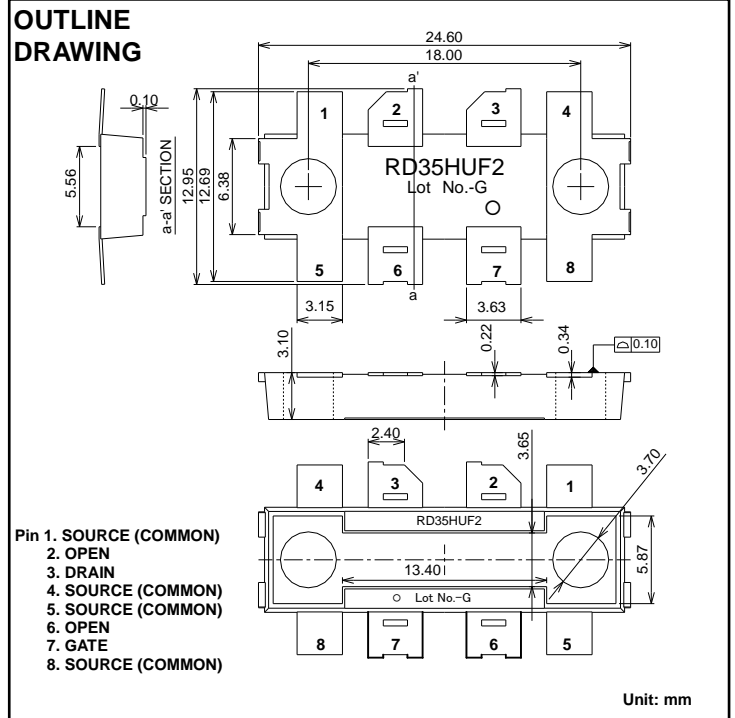
RoHS COMPLIANT

RD35HUF2 is a RoHS compliant product.

This product includes the lead in high melting temperature type solders.

However, it is applicable to the following exceptions of RoHS Directions.

1. Lead in high melting temperature type solders. (i.e. tin-lead solders alloys containing more than 85% lead.)



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RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

ABSOLUTE MAXIMUM RATINGS (T_c=25°C UNLESS OTHERWISE NOTED)

SYMBOL	PARAMETER	CONDITIONS	RATINGS	UNIT
VDSS	Drain to Source Voltage	V _{gs} =0V	40	V
VGSS	Gate to Source Voltage	V _{ds} =0V	-5/+10	V
P _{ch} *	Channel Dissipation	T _c =25°C	166	W
P _{in}	Input Power	Z _g =Z _l =50Ω	6	W
I _D	Drain Current	-	10	A
T _{ch}	Channel Temperature	-	175	°C
T _{stg}	Storage Temperature	-	-40 to +175	°C
R _{th j-c}	Thermal Resistance	Junction to Case	0.9	°C/W

Note: Above parameters are guaranteed independently.

* Theoretical value in case of mounted on infinite heat sink.

ELECTRICAL CHARACTERISTICS (T_c=25°C UNLESS OTHERWISE NOTED)

SYMBOL	PARAMETER	CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX.	
I _{DSS} *	Zero Gate Voltage Drain Current	V _{DS} =37V, V _{GS} =0V	-	-	150	μA
I _{GSS} *	Gate to Source Leak Current	V _{GS} =10V, V _{DS} =0V	-	-	2.5	μA
V _{TH} *	Gate Threshold Voltage	V _{DS} =12V, I _{DS} =1mA	1.6	2.0	2.4	V
P _{out1}	Output Power	f=530MHz*, V _{DS} =12.5V,	-	43	-	W
η _{D1}	Drain Efficiency	P _{in} =3.0W, I _{dq} =500mA	-	60	-	%
P _{out2}	Output Power	f=175MHz**, V _{DS} =12.5V,	-	45	-	W
η _{D2}	Drain Efficiency	P _{in} =3.0W, I _{dq} =500mA	-	72	-	%
VSWRT	Load VSWR Tolerance	All phase, V _{DS} =16.3V increased after P _{out} adjusted to 40W (Z _g /Z _l =50Ω) by P _{in} (under f=135MHz**, V _{DS} =12.5V and I _{dq} =500mA)	20:1	-	-	VSWR

Note: Above parameters, ratings, limits and conditions are subject to change.

* In Mitsubishi UHF Evaluation Board

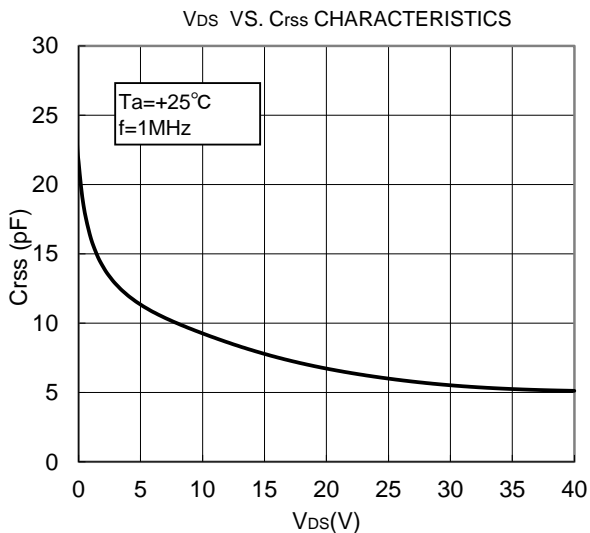
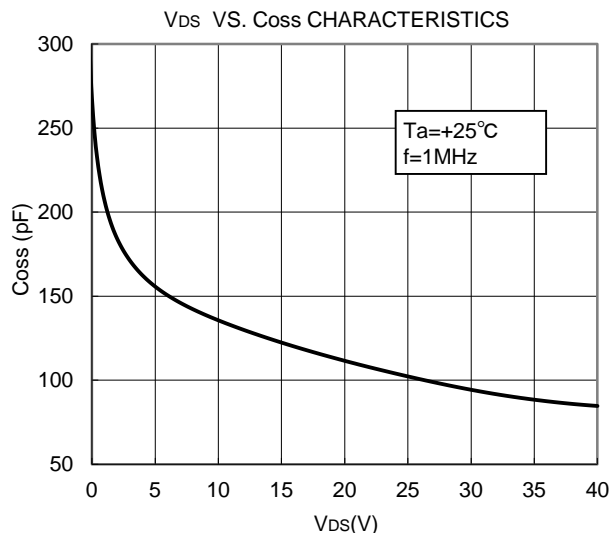
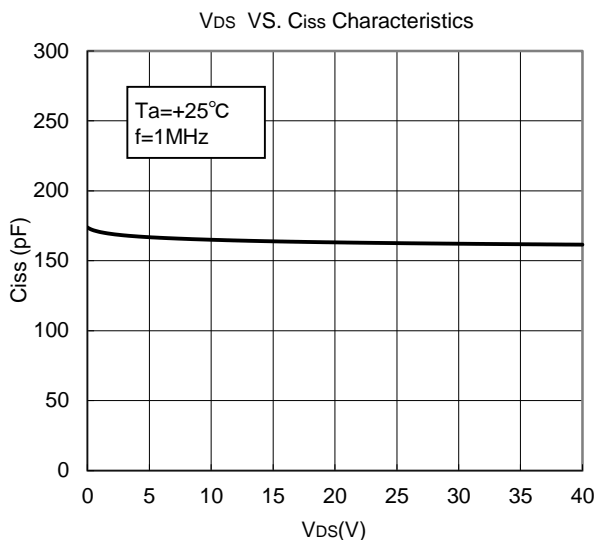
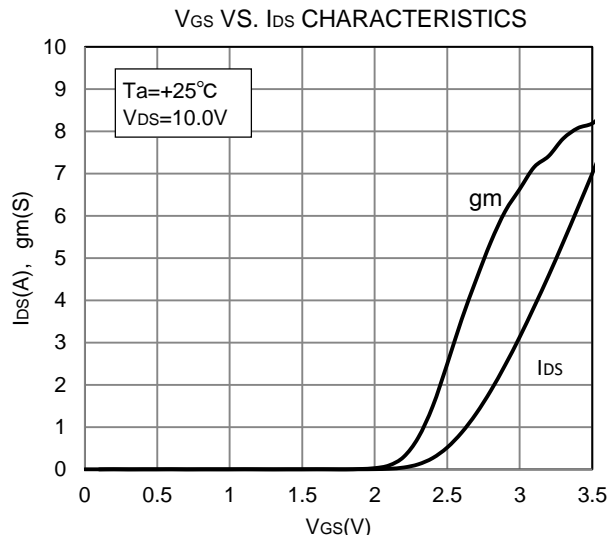
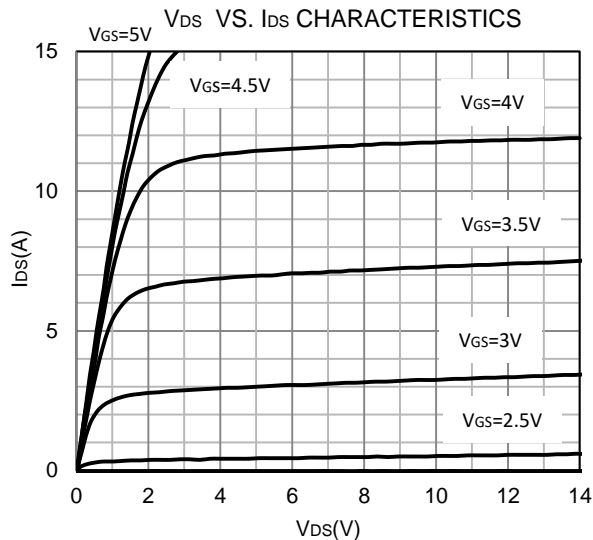
** In Mitsubishi VHF Evaluation Board

RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

TYPICAL CHARACTERISTICS

(These are only typical curves and devices are not necessarily guaranteed at these curves.)



RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

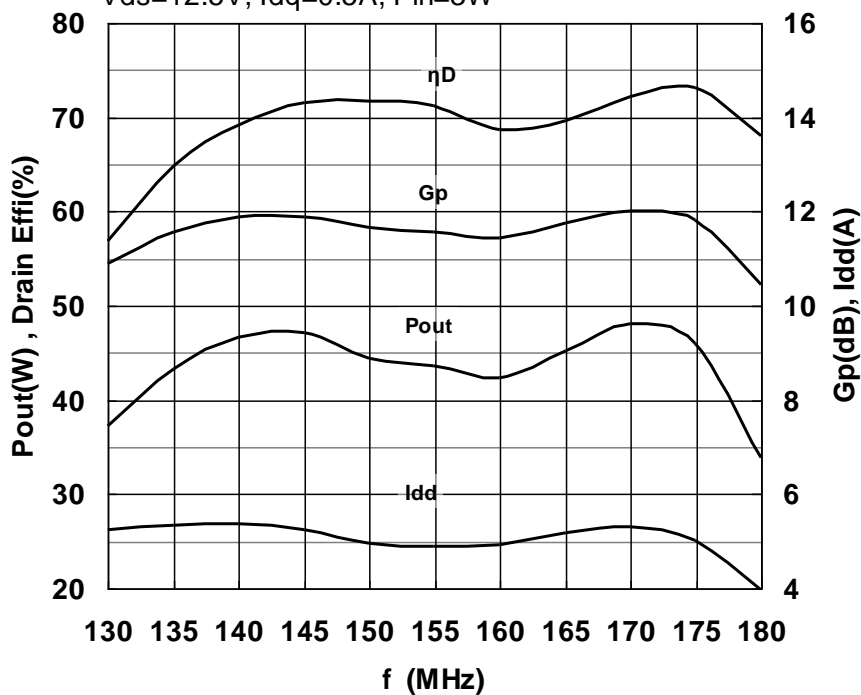
VHF-band TYPICAL CHARACTERISTICS

(These are only typical curves and devices are not necessarily guaranteed at these curves.)

Frequency Characteristics @f=135 to 175MHz

Ta=+25deg.C

Vds=12.5V, Idq=0.5A, Pin=3W



RD35HUF2

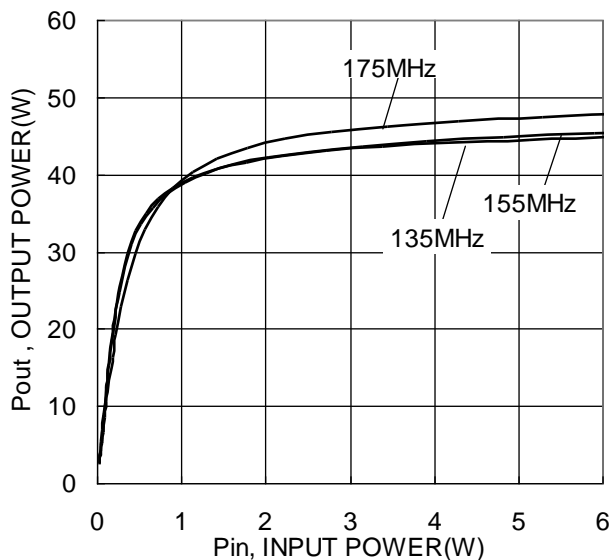
RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

VHF-band TYPICAL CHARACTERISTICS

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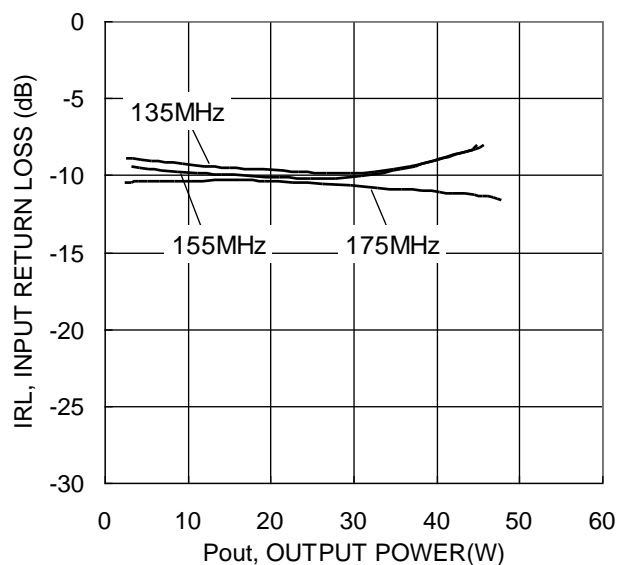
Output Power versus Input Power

Ta=+25deg.C, Vds=12.5V, Idq=0.5A



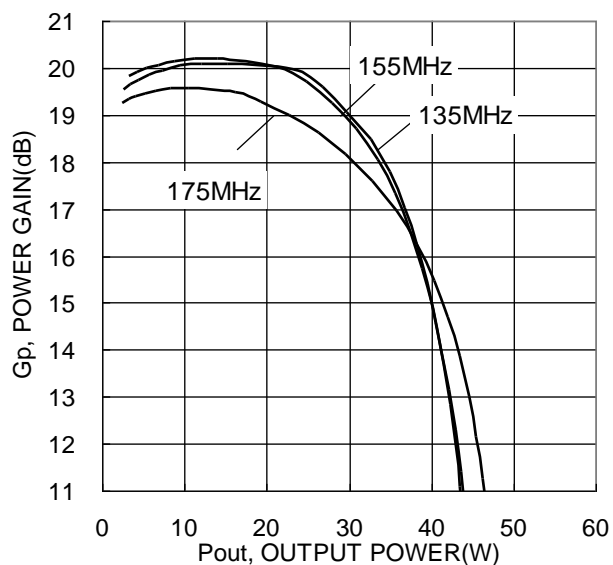
Input Return Loss versus Output Power

Ta=+25deg.C, Vds=12.5V, Idq=0.5A



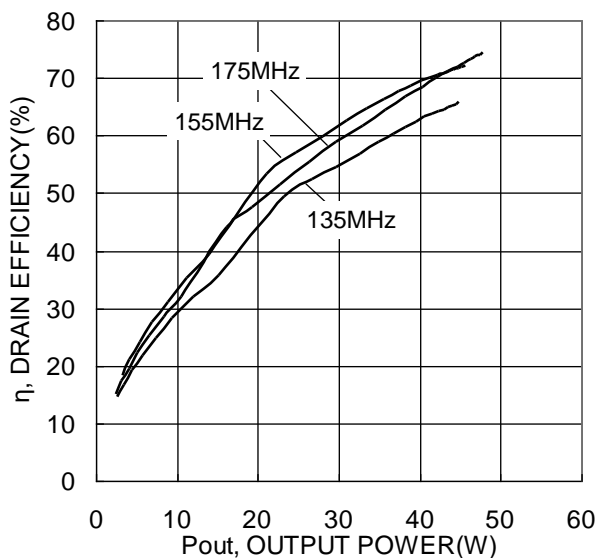
Gain versus Output Power

Ta=+25deg.C, Vds=12.5V, Idq=0.5A



Drain Efficiency versus Output Power

Ta=+25deg.C, Vds=12.5V, Idq=0.5A



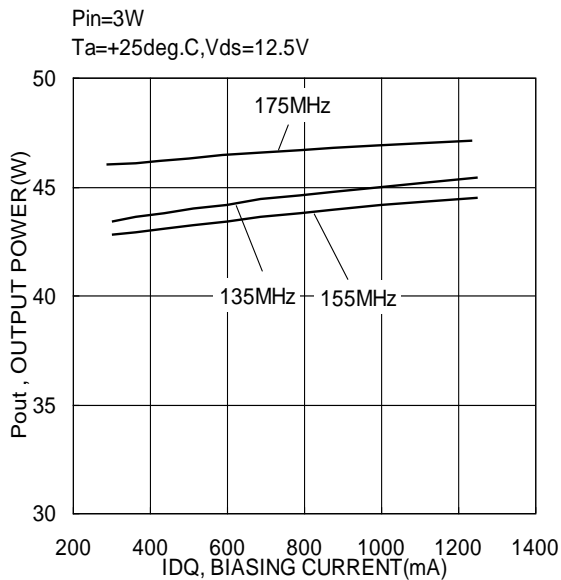
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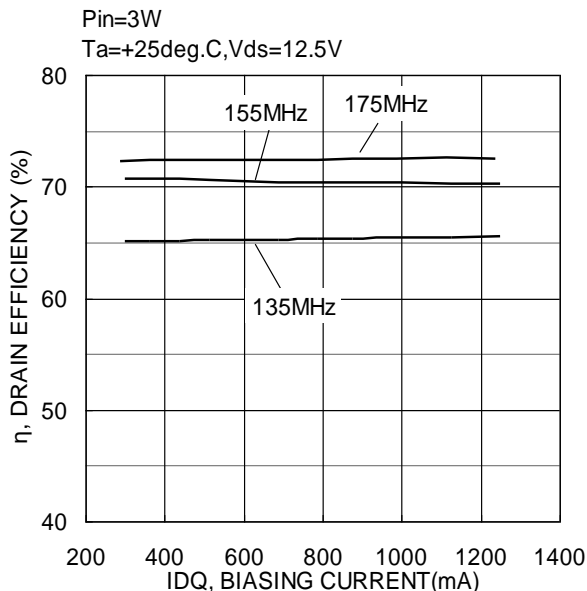
VHF-band TYPICAL CHARACTERISTICS

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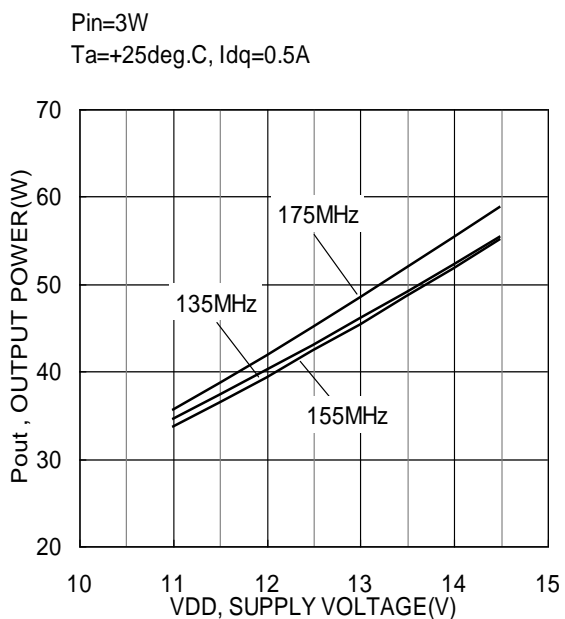
Output Power versus Biasing Current



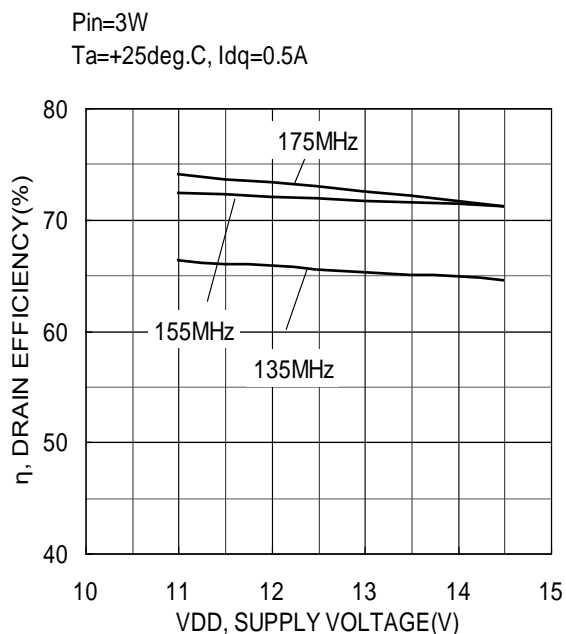
Drain Efficiency versus Biasing Current



Output Power versus Supply Voltage



Drain Efficiency versus Supply Voltage



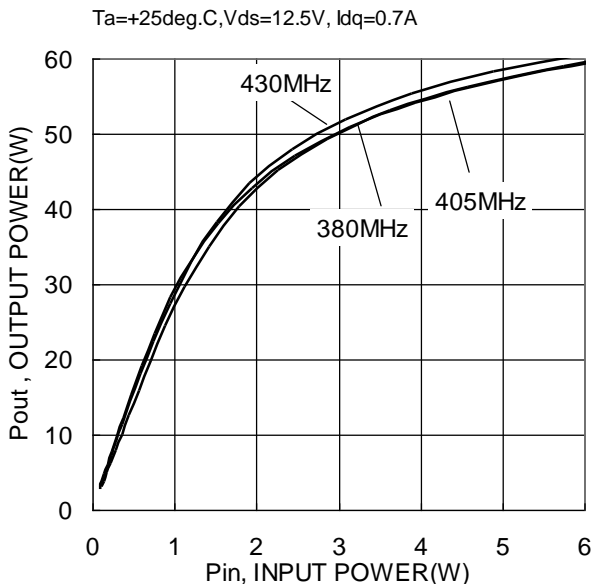
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RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

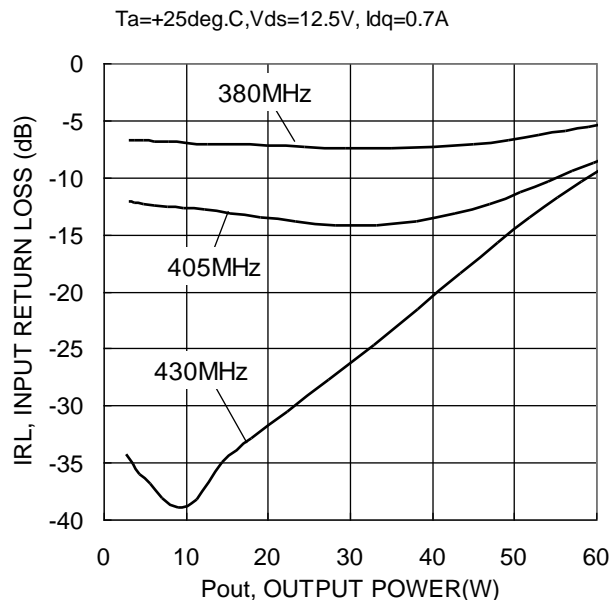
UHF-band, 380 - 430MHz, TYPICAL CHARACTERISTICS

(These are only typical curves and devices are not necessarily guaranteed at these curves.)

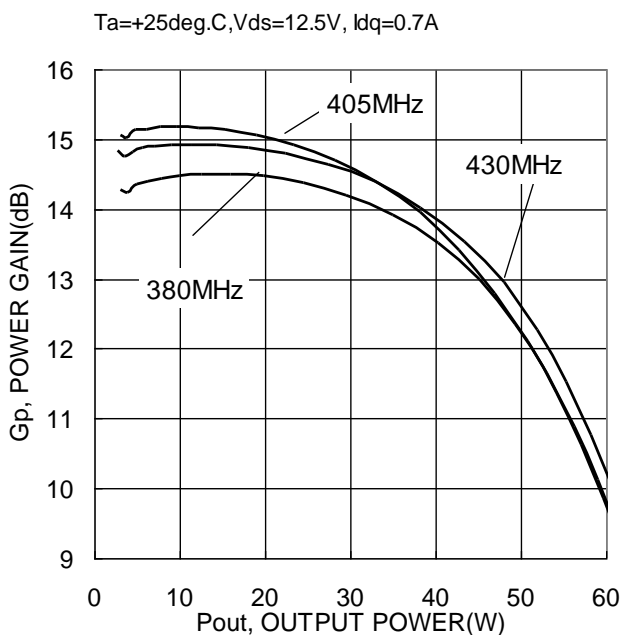
Output Power versus Input Power



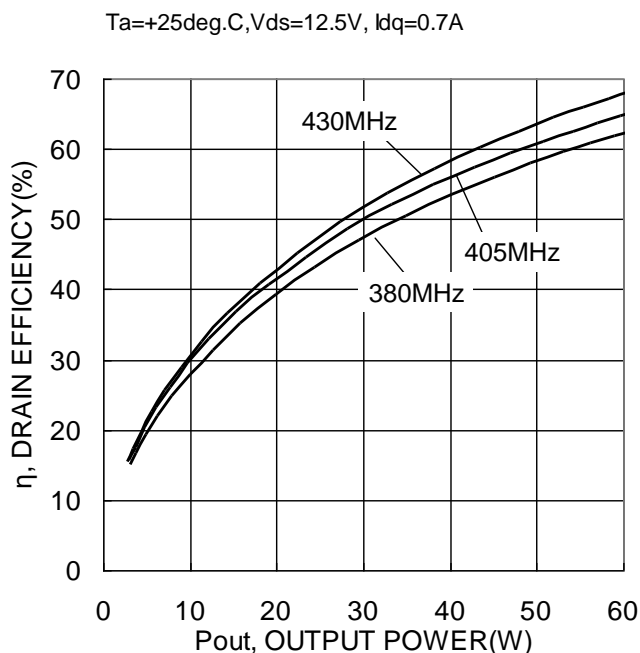
Input Return Loss versus Output Power



Gain versus Output Power



Drain Efficiency versus Output Power



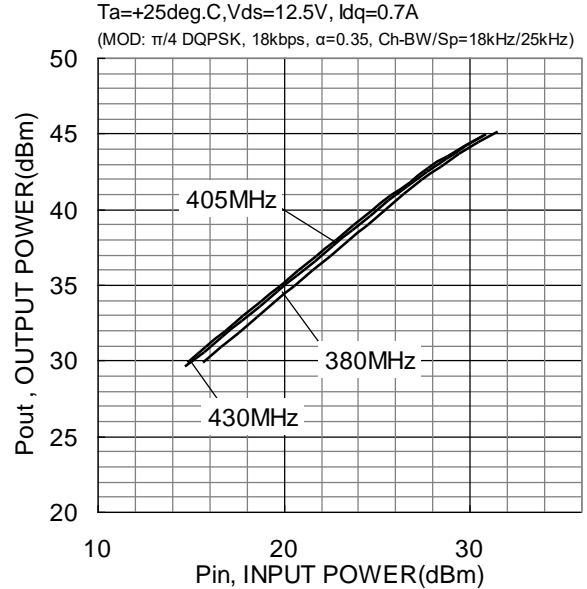
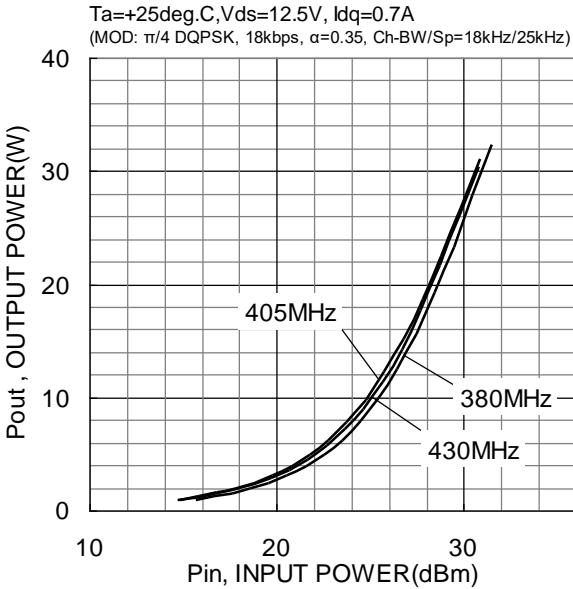
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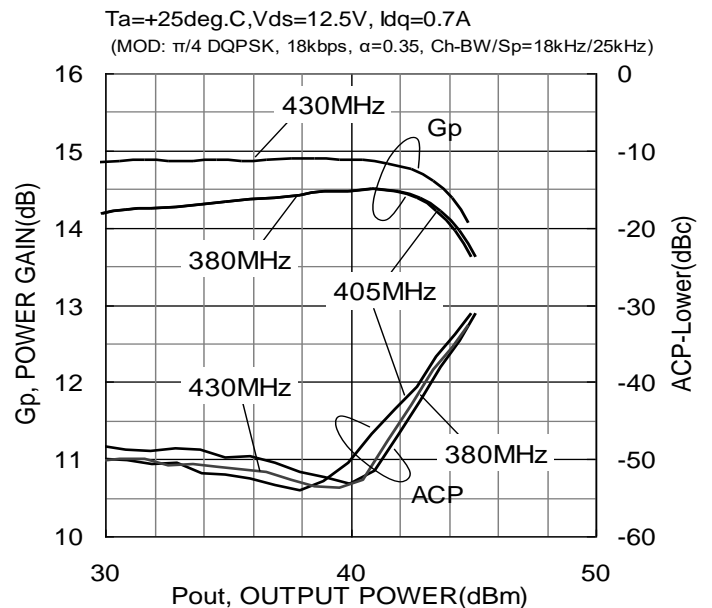
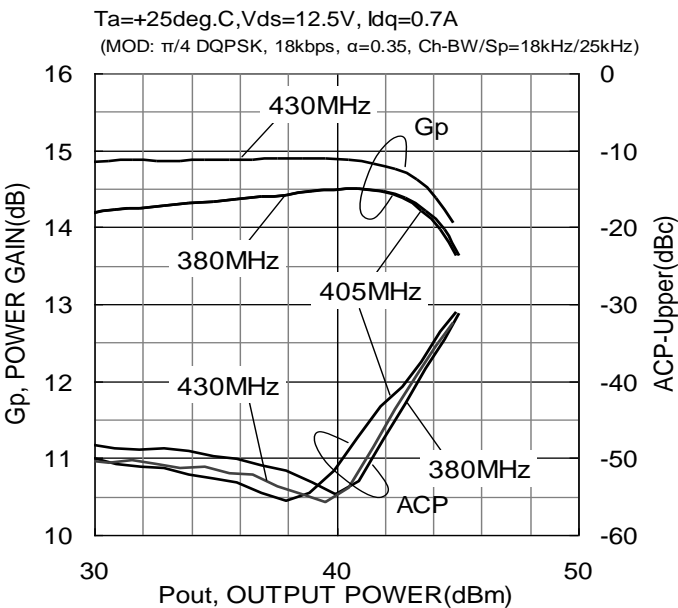
UHF-band, 380 - 430MHz, TYPICAL CHARACTERISTICS

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Output Power versus Input Power, Digital Modulation



Gain and Adjacent Channel Power Ratio versus Output Power, Digital Modulation



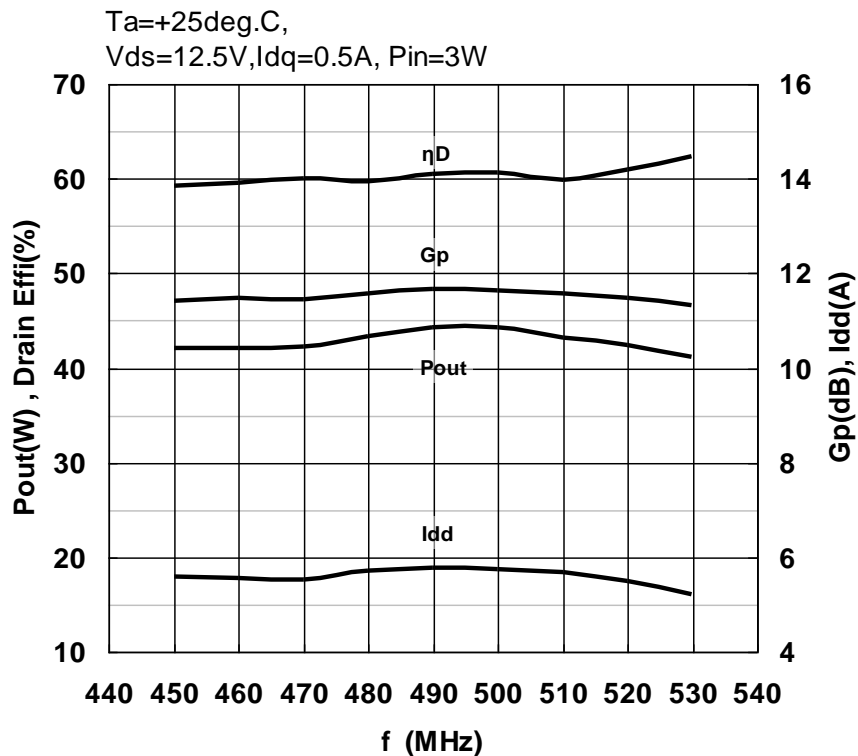
RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

UHF-band, 450 - 530MHz, TYPICAL CHARACTERISTICS

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Frequency Characteristics @f=450 to 530MHz



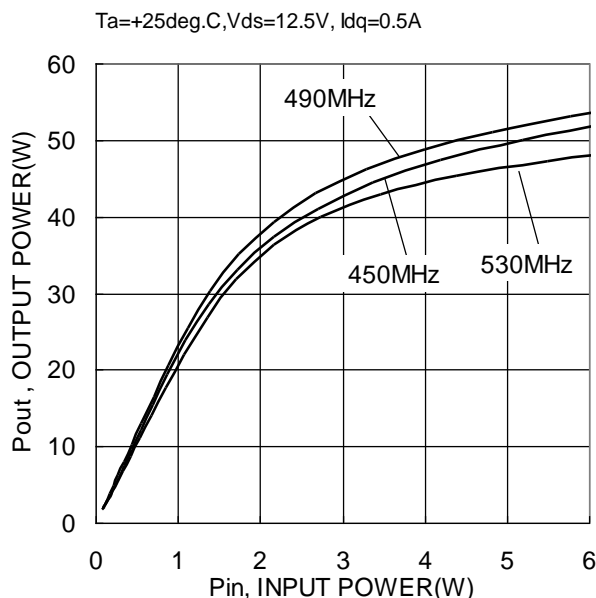
RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

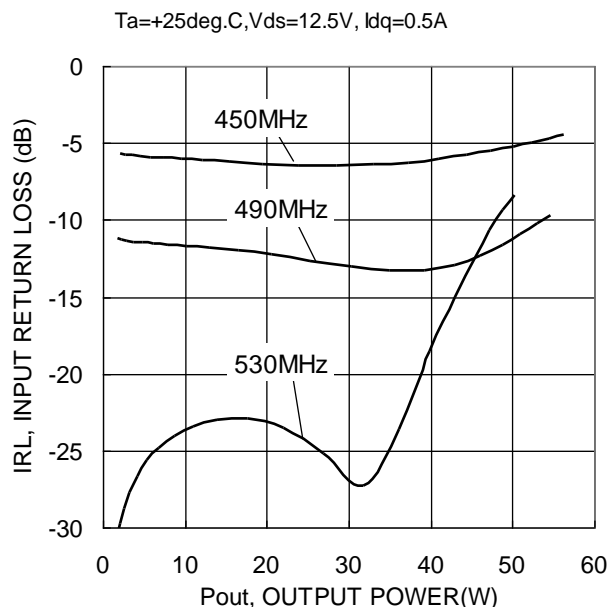
UHF-band, 450 - 530MHz, TYPICAL CHARACTERISTICS

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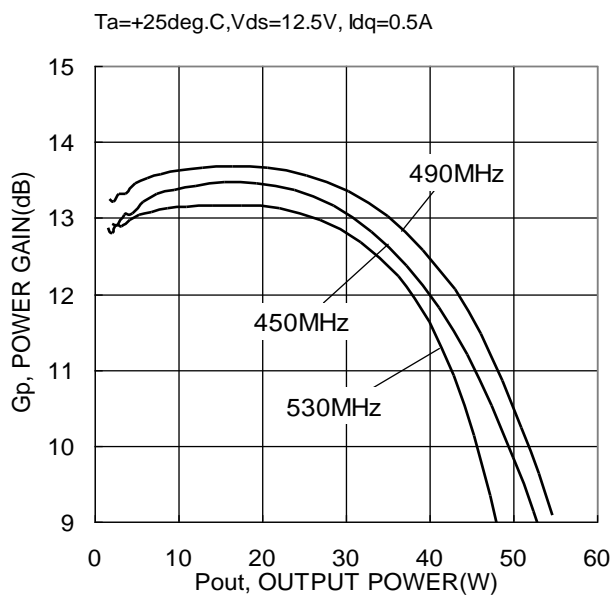
Output Power versus Input Power



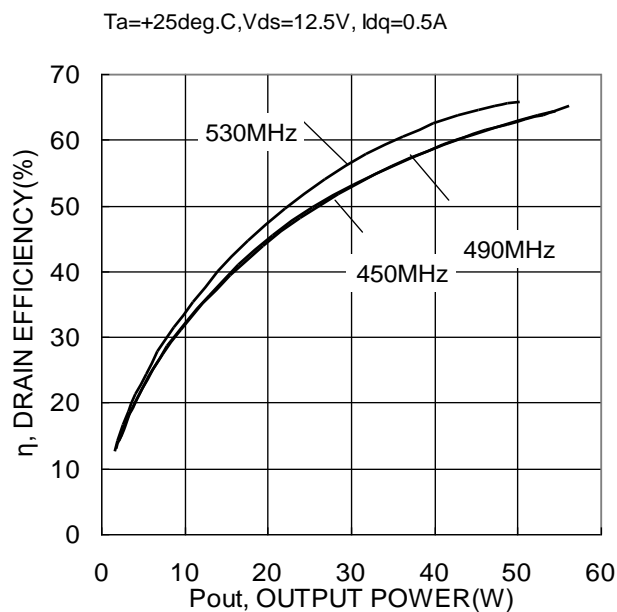
Input Return Loss versus Output Power



Gain versus Output Power



Drain Efficiency versus Output Power



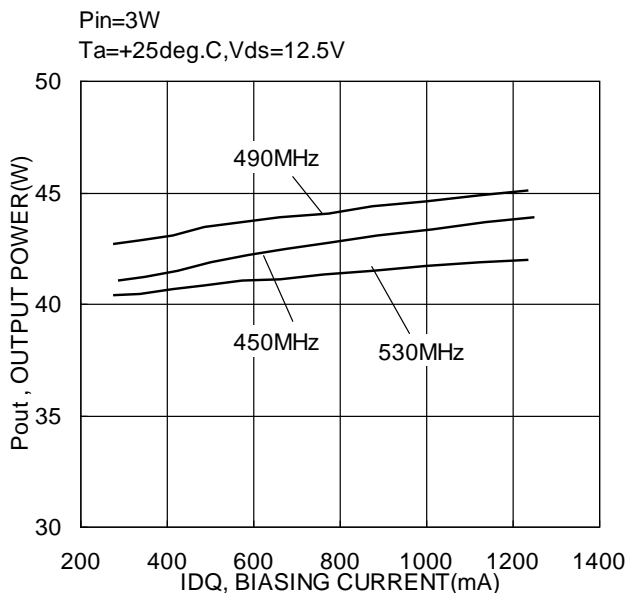
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RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

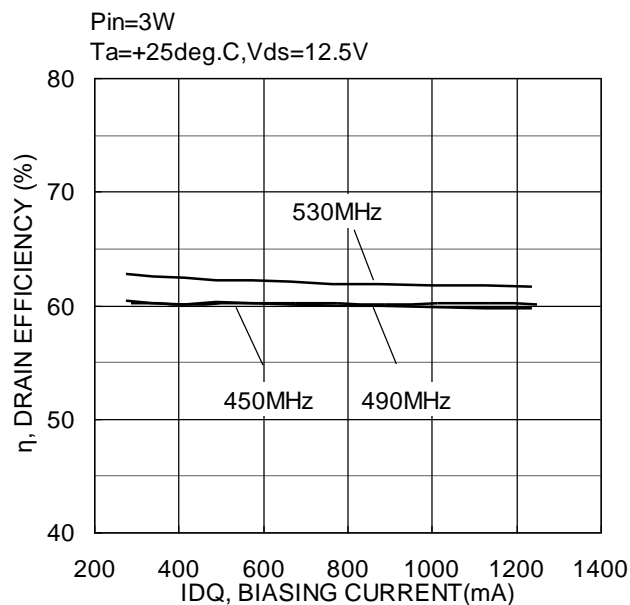
UHF-band, 450 - 530MHz, TYPICAL CHARACTERISTICS

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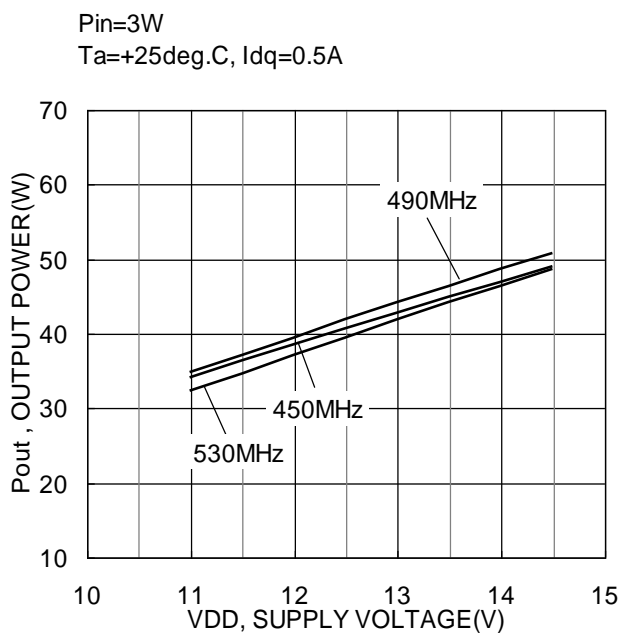
Output Power versus Biasing Current



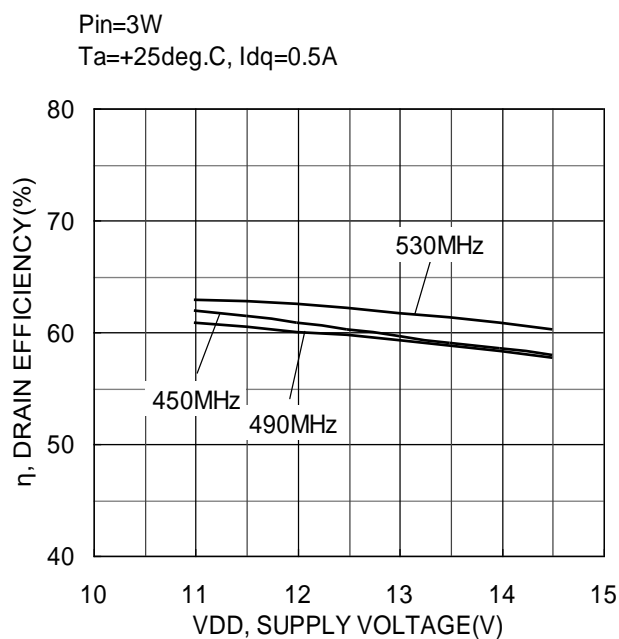
Drain Efficiency versus Biasing Current



Output Power versus Supply Voltage



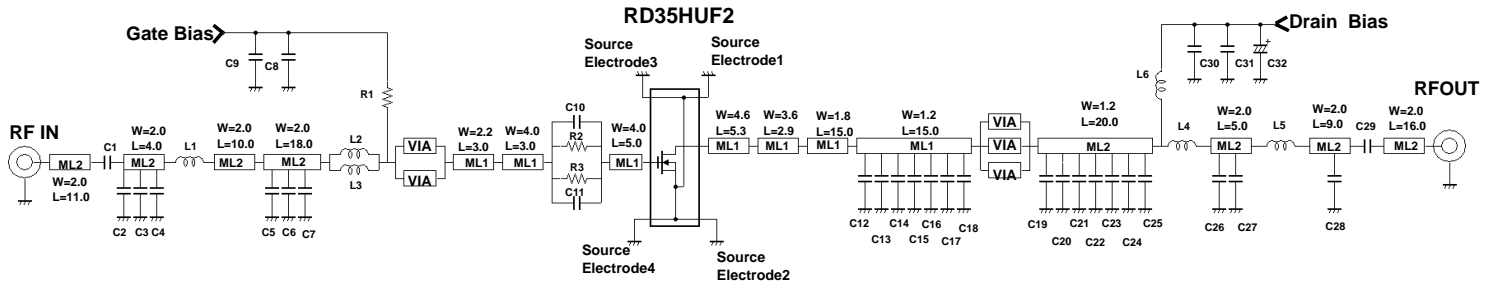
Drain Efficiency versus Supply Voltage



RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

EQUIVALENT CIRCUITRY for VHF EVALUATION BOARD (f=135 - 175MHz)



Board material: Glass Epoxy Substrate--
er=4.8, TanD=0.018 @1GHz

Micro Strip Line Substrate Thickness: ML1, T=0.2
ML2, T=1.1

VIA Hole Dimensions, Diameter=0.8 Length=1.6

UNIT: W/L/T, mm

C1	470 pF	3.2*1.6	Chip Ceramic Capacitors
C2, C3	22 pF	1.6*0.8	High Q Chip Ceramic Capacitors
C4	12 pF	1.6*0.8	High Q Chip Ceramic Capacitors
C5, C6, C7	68 pF	1.6*0.8	High Q Chip Ceramic Capacitors
C8, C9	1000 pF	2.0*1.2	Chip Ceramic Capacitors
C10, C11	100 pF	1.6*0.8	High Q Chip Ceramic Capacitors
L1	17 nH	-	4Turn Rolling Coil
L2, L3	10 nH	1.6*0.8	chip Inductors
R1	2200 ohm	1.6*0.8	chip Resistors
R2, R3	16 ohm	2.0*1.2	chip Resistors

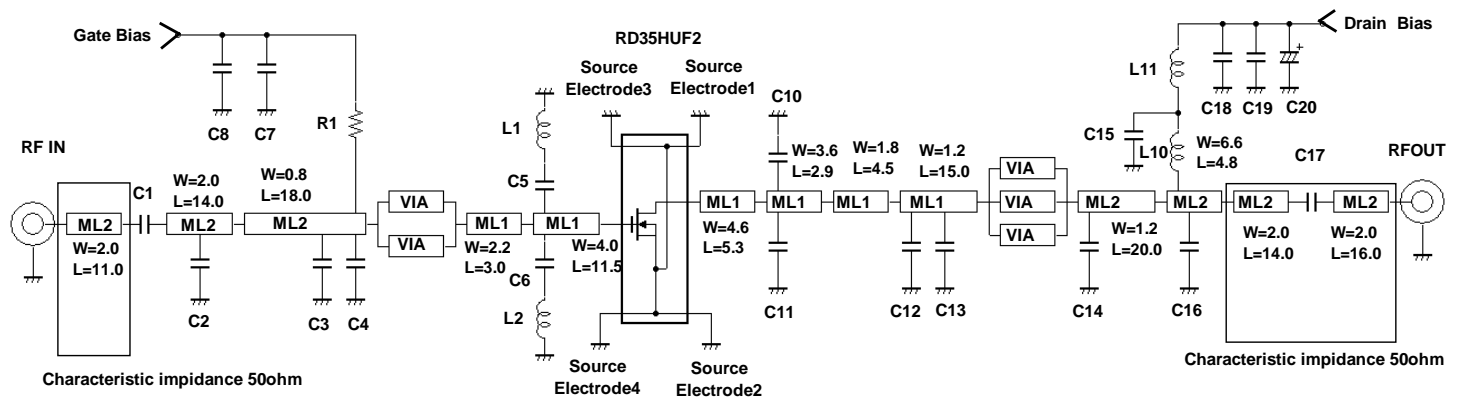
C12, C13, C14, C15, C16	15 pF	2.0*1.2	High Q Chip Ceramic Capacitors
C17, C18, C19, C20	47 pF	2.0*1.2	High Q Chip Ceramic Capacitors
C21, C22, C23, C24, C25	22 pF	2.0*1.2	High Q Chip Ceramic Capacitors
C26	18 pF	2.0*1.2	High Q Chip Ceramic Capacitors
C27	15 pF	2.0*1.2	High Q Chip Ceramic Capacitors
C28	24 pF	2.0*1.2	High Q Chip Ceramic Capacitors
C29	470 pF	3.2*1.6	Chip Ceramic Capacitors
C30, C31	1000 pF	2.0*1.2	Chip Ceramic Capacitors
C32	220 uF	-	35V, Electrolytic Capacitor
L4	8 nH	-	2Turn Rolling Coil
L5	12 nH	-	3Turn Rolling Coil
L6	25 nH	-	5Turn Rolling Coil

For more information regarding this evaluation board, refer to APPLICATION NOTE "AN-VHF-048"

RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

EQUIVALENT CIRCUITRY for UHF EVALUATION BOARD (f=380 - 430MHz)



Board material: Glass Epoxy Substrate--
er=4.8, TanD=0.018 @1GHz

Micro Strip Line Substrate Thickness: ML1, T=0.2
ML2, T=1.1

VIA Hole Dimensions, Diameter=0.8 Length=1.6

UNIT: W/L/T, mm

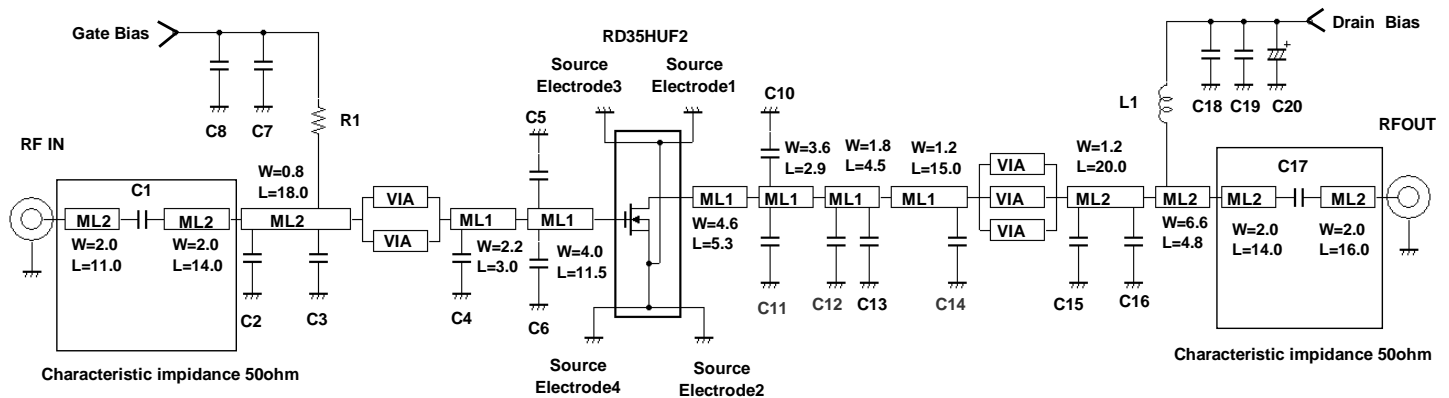
C1	330 pF	3.2*1.6	Chip Ceramic Capacitors
C2	6 pF	1.6*0.8	High Q Chip Ceramic
C3	27 pF	1.6*0.8	High Q Chip Ceramic
C4	9 pF	1.6*0.8	High Q Chip Ceramic
C5, C6	18 pF	1.6*0.8	High Q Chip Ceramic
C7, C8	1000 pF	2.0*1.2	Chip Ceramic Capacitors
R1	2.2 kohm	1.6*0.8	
L1, L2	2.2 nH	1.6*0.8	Chip Inductors
C10	33 pF	2.0*1.2	High Q Chip Ceramic
C11	33 pF	2.0*1.2	High Q Chip Ceramic
C12	18 pF	2.0*1.2	High Q Chip Ceramic
C13	18 pF	2.0*1.2	High Q Chip Ceramic
C14	5 pF	2.0*1.2	High Q Chip Ceramic
C15	1.2 pF	2.0*1.2	High Q Chip Ceramic
C16	9 pF	2.0*1.2	High Q Chip Ceramic
C17	100 pF	3.2*2.5	High Q Chip Ceramic
C18, C19	1000 pF	2.0*1.2	Chip Ceramic Capacitors
C20	220 uF	-	35V, Electrolytic Capacitor
L10	8 nH	-	2Turn Rolling Coil
L11	17 nH	-	4Turn Rolling Coil

For more information regarding this evaluation board, refer to APPLICATION NOTE "AN-UHF-127"

RD35HUF2

RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

EQUIVALENT CIRCUITRY for UHF EVALUATION BOARD (f=450 - 530MHz)



Board material: Glass Epoxy Substrate--
er=4.8, TanD=0.018 @1GHz

Micro Strip Line Substrate Thickness: ML1, T=0.2
ML2, T=1.1

VIA Hole Dimensions, Diameter=0.8 Length=1.6

UNIT: W/L/T, mm

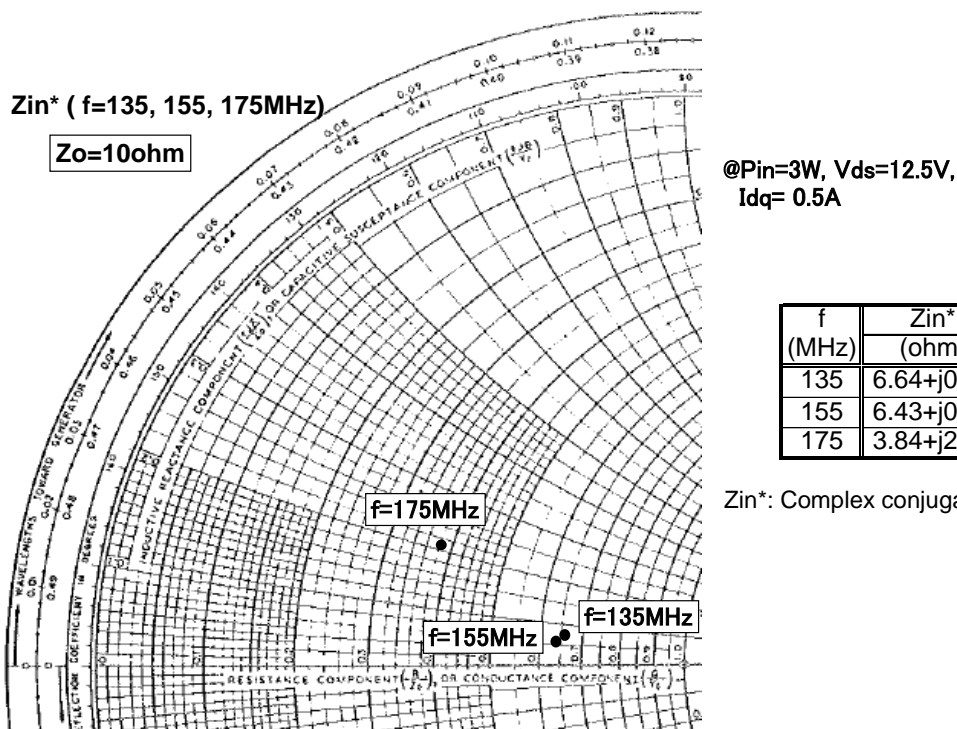
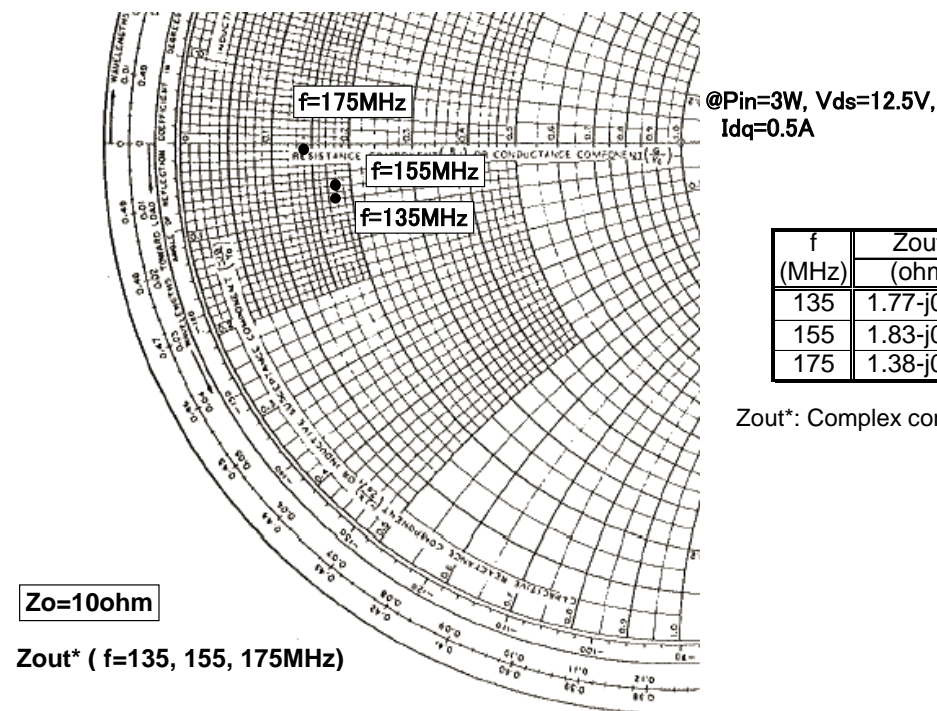
C1	330 pF	3.2*1.6	Chip Ceramic Capacitors
C2	6.2 pF	1.6*0.8	High Q Chip Ceramic
C3	18 pF	1.6*0.8	High Q Chip Ceramic
C4	9 pF	1.6*0.8	High Q Chip Ceramic
C5, C6	18 pF	1.6*0.8	High Q Chip Ceramic
C7, C8	1000 pF	2.0*1.2	Chip Ceramic Capacitors
R1	2.2 kohm	1.6*0.8	
C10	33 pF	2.0*1.2	High Q Chip Ceramic
C11	33 pF	2.0*1.2	High Q Chip Ceramic
C12	2.4 pF	2.0*1.2	High Q Chip Ceramic
C13	12 pF	2.0*1.2	High Q Chip Ceramic
C14	3.3 pF	2.0*1.2	High Q Chip Ceramic
C15	5.1 pF	2.0*1.2	High Q Chip Ceramic
C16	9.1 pF	2.0*1.2	High Q Chip Ceramic
C17	100 pF	3.2*2.5	High Q Chip Ceramic
C18, C19	1000 pF	2.0*1.2	Chip Ceramic Capacitors
C20	220 uF	-	35V, Electrolytic Capacitor
L1	29 nH	-	6Turn Rolling Coil

For more information regarding this evaluation board, refer to APPLICATION NOTE "AN-UHF-112"

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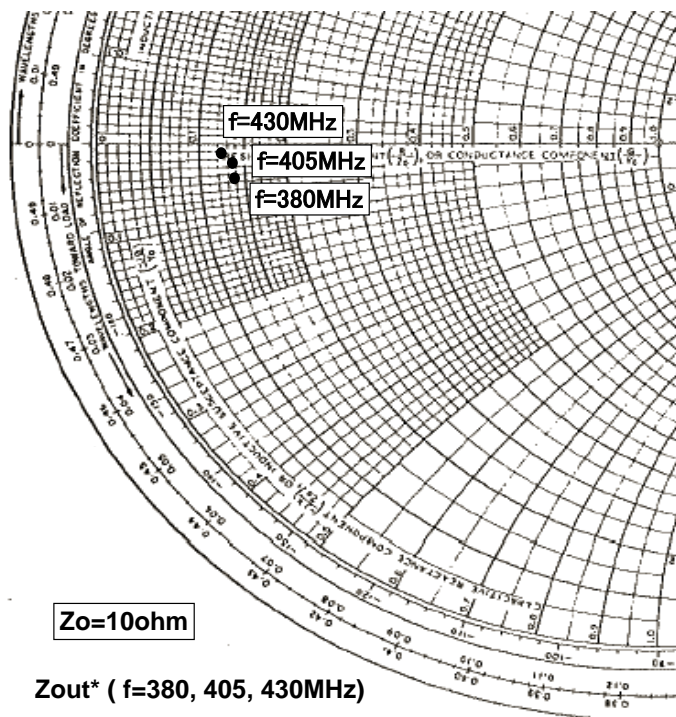
Input / Output Impedance VS. Frequency Characteristics



RD35HUF2

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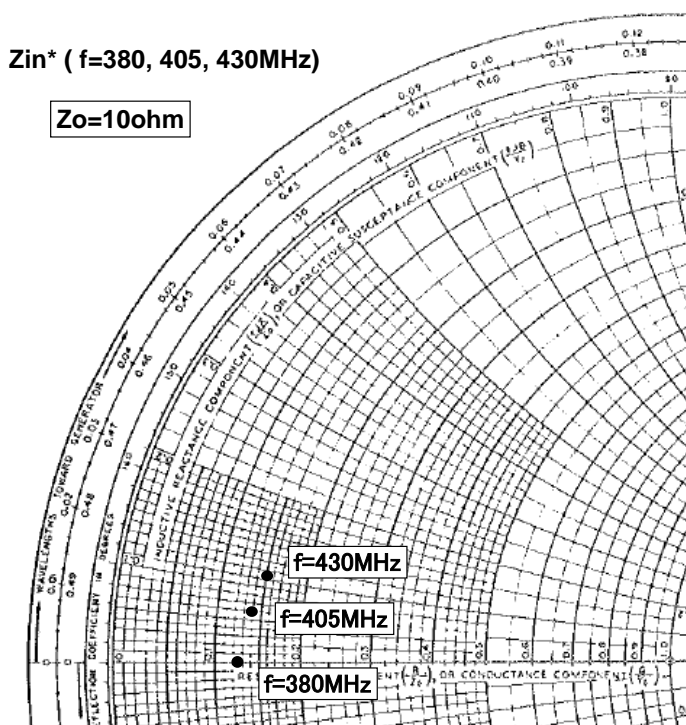
Input / Output Impedance VS. Frequency Characteristics



@Pin=3W, Vds=12.5V,
Idq=0.5A

f (MHz)	Zout* (ohm)
380	1.44-j0.41
405	1.43-j0.30
430	1.30-j0.19

Zout*: Complex conjugate of output impedance



@Pin=3W, Vds=12.5V,
Idq= 0.5A

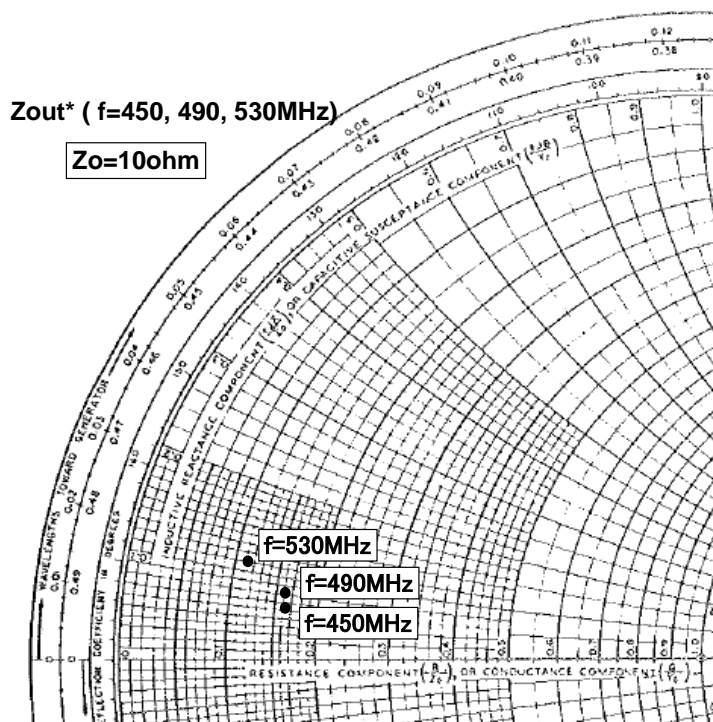
f (MHz)	Zin* (ohm)
380	1.34+j0.00
405	1.43+j0.58
430	1.52+j1.11

Zin*: Complex conjugate of input impedance

RD35HUF2

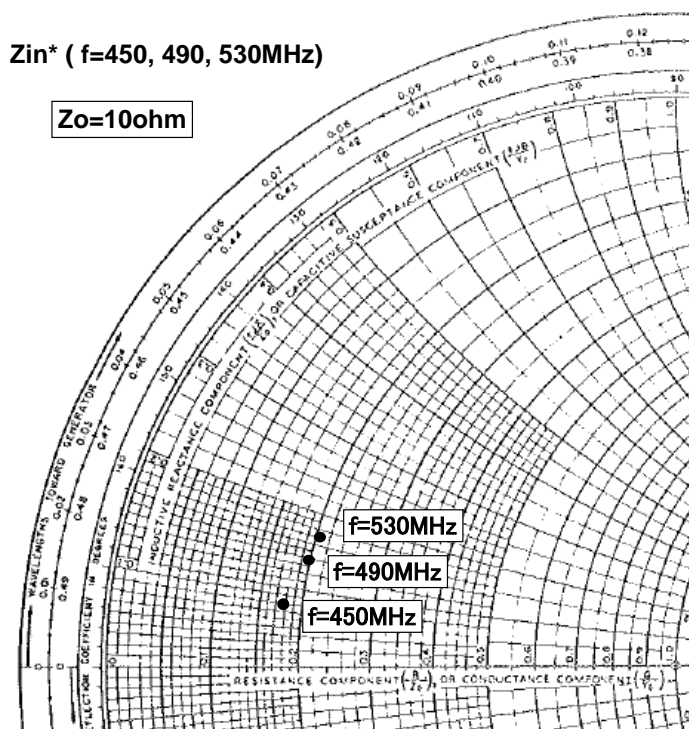
RoHS Compliance, Silicon MOSFET Power Transistor, 175MHz, 530MHz, 35W

Input / Output Impedance VS. Frequency Characteristics



f (MHz)	Zout* (ohm)
450	1.59+j0.69
490	1.57+j0.91
530	1.14+j1.24

Zout*: Complex conjugate of output impedance



f (MHz)	Zin* (ohm)
450	1.79+j0.77
490	1.99+j1.38
530	2.06-j1.69

Zin*: Complex conjugate of input impedance

RD35HUF2

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Small Signal Parameter of RD35HUF2

Bias Condition: Vds=12.5V, Idq=0.5A

Freq. (MHz)	S11		S21		S12		S22	
	(mag)	(ang)	(mag)	(ang)	(mag)	(ang)	(mag)	(ang)
100	0.882	-174.5	5.155	69.4	0.009	-14.8	0.847	-174.4
135	0.894	-175.2	3.631	61.8	0.008	-20.1	0.864	-174.4
150	0.899	-175.4	3.188	58.9	0.008	-21.6	0.871	-174.4
175	0.907	-175.8	2.619	54.4	0.007	-24.8	0.884	-174.5
200	0.915	-176.2	2.187	50.1	0.007	-26.5	0.896	-174.8
250	0.929	-177.1	1.594	42.8	0.005	-28.7	0.916	-175.4
300	0.940	-178.0	1.205	36.9	0.004	-27.8	0.931	-176.2
350	0.948	-179.0	0.944	31.6	0.003	-20.1	0.942	-177.1
400	0.955	-179.9	0.755	27.2	0.003	-5.7	0.950	-177.9
450	0.960	179.3	0.616	23.7	0.002	16.0	0.954	-178.7
500	0.964	178.4	0.514	20.4	0.002	34.8	0.957	-179.4
550	0.967	177.5	0.433	17.7	0.003	54.5	0.959	179.9
600	0.970	176.6	0.375	15.4	0.003	63.4	0.962	179.4
650	0.971	175.7	0.322	12.8	0.004	68.9	0.966	178.7
700	0.974	174.9	0.284	11.0	0.005	72.8	0.969	178.1
750	0.974	173.9	0.252	10.1	0.005	75.5	0.973	177.3
800	0.976	173.0	0.228	7.7	0.006	76.5	0.974	176.5
850	0.976	172.0	0.203	6.0	0.007	77.5	0.977	175.6
900	0.977	171.0	0.185	6.5	0.008	78.7	0.977	174.7
950	0.978	170.0	0.164	3.6	0.009	77.5	0.978	173.9
1000	0.979	168.9	0.151	2.5	0.010	76.8	0.978	173.0
1050	0.979	167.8	0.139	0.7	0.011	76.1	0.979	172.1
1100	0.979	166.7	0.130	-0.1	0.011	75.9	0.980	171.0

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ATTENTION:

- 1.High Temperature ; This product might have a heat generation while operation,Please take notice that have a possibility to receive a burn to touch the operating product directly or touch the product until cold after switch off. At the near the product,do not place the combustible material that have possibilities to arise the fire.
- 2.Generation of High Frequency Power ; This product generate a high frequency power. Please take notice that do not leakage the unnecessary electric wave and use this products without cause damage for human and property per normal operation.
- 3.Before use; Before use the product,Please design the equipment in consideration of the risk for human and electric wave obstacle for equipment.

PRECAUTIONS FOR THE USE OF MITSUBISHI SILICON RF POWER DEVICES:

1. The specifications of mention are not guarantee values in this data sheet. Please confirm additional details regarding operation of these products from the formal specification sheet. For copies of the formal specification sheets, please contact one of our sales offices.
- 2.RA series products (RF power amplifier modules) and RD series products (RF power transistors) are designed for consumer mobile communication terminals and were not specifically designed for use in other applications. In particular, while these products are highly reliable for their designed purpose, they are not manufactured under a quality assurance testing protocol that is sufficient to guarantee the level of reliability typically deemed necessary for critical communications elements and In the application, which is base station applications and fixed station applications that operate with long term continuous transmission and a higher on-off frequency during transmitting, please consider the derating, the redundancy system, appropriate setting of the maintain period and others as needed. For the reliability report which is described about predicted operating life time of Mitsubishi Silicon RF Products , please contact Mitsubishi Electric Corporation or an authorized Mitsubishi Semiconductor product distributor.
3. RD series products use MOSFET semiconductor technology. They are sensitive to ESD voltage therefore appropriate ESD precautions are required.
4. In the case of use in below than recommended frequency, there is possibility to occur that the device is deteriorated or destroyed due to the RF-swing exceed the breakdown voltage.
5. In order to maximize reliability of the equipment, it is better to keep the devices temperature low. It is recommended to utilize a sufficient sized heat-sink in conjunction with other cooling methods as needed (fan, etc.) to keep the channel temperature for RD series products lower than 120deg/C(in case of Tchmax=150deg/C) ,140deg/C(in case of Tchmax=175deg/C) under standard conditions.
6. Do not use the device at the exceeded the maximum rating condition. In case of plastic molded devices, the exceeded maximum rating condition may cause blowout, smoldering or catch fire of the molding resin due to extreme short current flow between the drain and the source of the device. These results causes in fire or injury.
7. For specific precautions regarding assembly of these products into the equipment, please refer to the supplementary items in the specification sheet.
8. Warranty for the product is void if the products protective cap (lid) is removed or if the product is modified in any way from it's original form.
9. For additional "Safety first" in your circuit design and notes regarding the materials, please refer the last page of this data sheet.

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10. Please avoid use in the place where water or organic solvents can adhere directly to the product and the environments with the possibility of caustic gas, dust, salinity, etc. Reliability could be markedly decreased and also there is a possibility failures could result causing a serious accident. Likewise, there is a possibility of causing a serious accident if used in an explosive gas environment. Please allow for adequate safety margin in your designs.

11. Please refer to the additional precautions in the formal specification sheet.

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.

Notes regarding these materials

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Main Revision for this Edition

No	Date	Revision	
		Pages	Points
1	May 2011	-	Initial Release
2	2011.10.14	1-21 19	<ul style="list-style-type: none">• The product name was changed. Before it corrects it < Silicon RF Power Semiconductors >• PRECAUTION FOR THE USE OF MITSUBISHI SILICON RF POWER AMPLIFIER DEVICES: 2. The content of the above-mentioned item is changed. Before it corrects it 2.RA series products (RF power amplifier modules) are designed for consumer mobile communication terminals and were not specifically designed for use in other applications. In particular, while these products are highly reliable for their designed purpose, they are not manufactured under a quality assurance testing protocol that is sufficient to guarantee the level of reliability typically deemed necessary for critical communications elements. Examples of critical communications elements would include transmitters for base station applications and fixed station applications that operate with long term continuous transmission and a higher on-off frequency during transmitting, especially for systems that may have a high impact to society.
3	2016.9.28	3 14 20	DC,容量データを新ファブウエハ品にチェンジ Sパラデータを新ファブウエハ品にチェンジ 注意事項の追加
4	2018.11.13	1-20	New