

Unit in mm

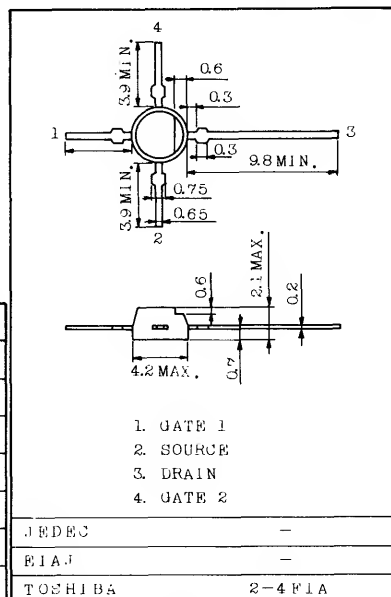
TV TUNER, UHF RF AMPLIFIER APPLICATION.

FEATURES:

- Superior Cross Modulation Performance
- Low Crss : $C_{rss}=0.03\text{pF}$
- Low Noise : $NF=3.2\text{dB}$

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DS}	15	V
Gate1-Source Voltage	V_{G1S}	± 8	V
Gate2-Source Voltage	V_{G2S}	± 8	V
Drain Current	I_D	30	mA
Power Dissipation	P_D	200	mW
Channel Temperature	T_{ch}	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim +125$	$^\circ\text{C}$



Weight : 0.08g

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate1 Leakage Current	I_{G1SS}	$V_{DS}=0, V_{G1S}=\pm 6V, V_{G2S}=0$	—	—	± 50	nA
Gate2 Leakage Current	I_{G2SS}	$V_{DS}=0, V_{G1S}=0, V_{G2S}=\pm 6V$	—	—	± 50	nA
Drain Source Voltage	$V(BR)_{DSX}$	$V_{G1S}=-4V, V_{G2S}=-4V$ $I_D=100\mu A$	15	—	—	V
Drain Current	I_{DSS} (Note)	$V_{DS}=6V, V_{G1S}=0, V_{G2S}=3V$	0	—	6	mA
Gate1-Source Cut-off Voltage	$V_{G1S(OFF)}$	$V_{DS}=6V, V_{G2S}=3V, I_D=100\mu A$	-1.5	—	+1	V
Gate2-Source Cut-off Voltage	$V_{G2S(OFF)}$	$V_{DS}=6V, V_{G1S}=3V, I_D=100\mu A$	-1.0	—	+1	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=6V, V_{G2S}=3V$ $I_D=10mA, f=1kHz$	—	17	—	mS
Input Capacitance	C_{iss}	$V_{DS}=6V, V_{G2S}=3V$	—	2.0	—	pF
Reverse Transfer Capacitance	C_{rss}	$I_D=10mA, f=1MHz$	—	0.02	0.03	pF
Power Gain	G_{ps}	$V_{DS}=6V, V_{G2S}=3V$	13	16	—	dB
Noise Figure	NF	$I_D=10mA, f=800MHz$	—	3.2	4.5	dB

Note : I_{DSS} Classification 0 : 0 ~ 2mA, Y : 1 ~ 6mA

Marking

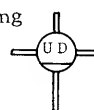
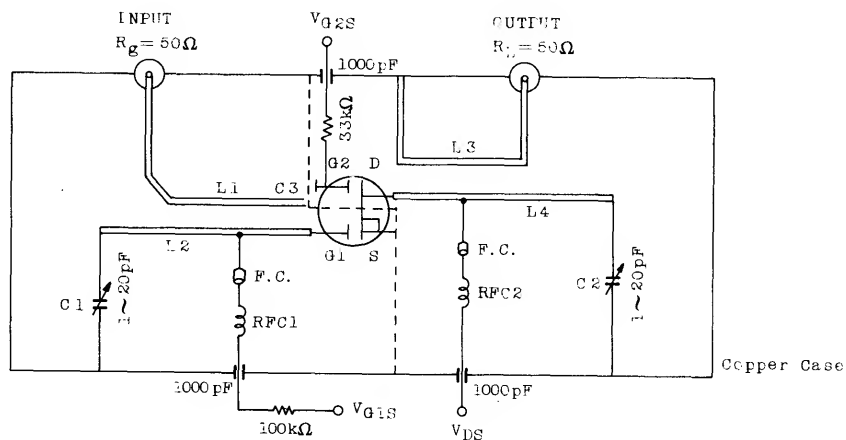


Fig. 1 800MHz Gps, NF TEST CIRCUIT



L1~L4 : 1.0mm ϕ SILVER PLATED COPPER WIRE

RFC1 : 0.35mm ϕ COPPER WIRE 7.0T 3mm ID

RFC2 : 0.35mm ϕ COPPER WIRE 10.0T 3mm ID

C1,C2 : AIR TRIMMER TTA25A200A(MURATA MFG. Co., LTD.) OR EQUIVALENT

C3 : 1000pF DISC CAPACITOR

F.C : FERRITE CORE

