

TV TUNER, VHF RF AMPLIFIER APPLICATIONS.

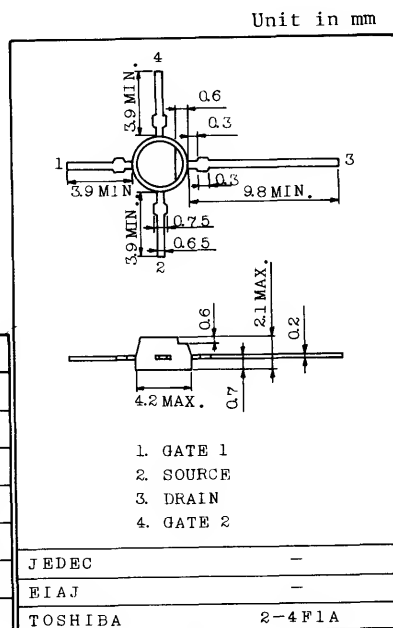
TV TUNER VHF MIXER APPLICATIONS.

FEATURES:

- Superior Cross Modulation Performance.
- Low Reverse Transfer Capacitance : $C_{rss}=0.03\text{pF}$ (Typ.)
- Low Noise Figure : $NF=1.4\text{dB}$ (Typ.)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DS}	15	V
Gate 1 - Source Voltage	V_{G1S}	± 9	V
Gate 2 - Source Voltage	V_{G2S}	± 9	V
Drain Current	I_D	30	mA
Drain Power Dissipation	P_D	200	mW
Channel Temperature	T_{ch}	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim +125$	$^\circ\text{C}$



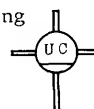
Weight : 0.08g

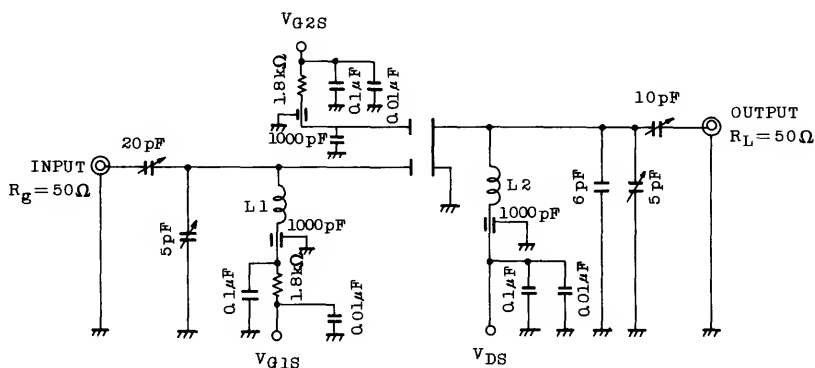
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate 1 Leakage Current	I_{G1SS}	$V_{DS}=0, V_{G1S}=\pm 7V, V_{G2S}=0$	-	-	± 50	nA
Gate 2 Leakage Current	I_{G2SS}	$V_{DS}=0, V_{G1S}=0, V_{G2S}=\pm 7V$	-	-	± 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	-	1	V
Gate2-Source Cut-off Voltage	$V_{G2S(OFF)}$	$V_{DS}=6V, V_{G1S}=3V, I_D=100\mu A$	-0.5	-	1	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=6V, V_{G2S}=3V,$ $I_D=10mA, f=1kHz$	13	20	-	mS
Input Capacitance	C_{iss}	$V_{DS}=6V, V_{G2S}=3V$	-	4.25	5.5	pF
Reverse Transfer Capacitance	C_{rss}	$I_D=10mA, f=1MHz$	-	0.03	0.05	pF
Power Gain	G_{ps}	$V_{DS}=6V, V_{G2S}=3V$	20	25	-	dB
Noise Figure	NF	$I_D=10mA, f=200MHz$	-	1.4	2.8	dB

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

Marking





L1 : 1mmφ Ag Plated Copper Wire, 2 Turns, 8mm ID

L2 : 1mmφ Ag Plated Copper Wire, 2.5 Turns, 8mm ID

