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TOSHIBA

MICROWAVE POWER GaAs FET

PRELIMINARY

Features

- Low distortion
- P_{adi} = -74 dBc at Po = 38 dBm WWW.DZSC.COM
- High gain
 - G_{1dB} = 13 dB
- Partially matched type
- Hermetically sealed package

RF Performance Specifications (T_a = 25°C)

Characteristic	Symbol	Condition	Unit	Min.	Typ.	Max.
Output Power at 1dB Compression Point	P _{1dB}		dBm	41.5	42.5	-
Power Gain at 1dB Compression Point	G _{1dB}	V _{DS} = 10V	dB	12.0	13.0	-
Drain Current	IDS	f = 1.9 GHz	Α	-	3.5	5.0
Power Added Efficiency	η _{add}		%		42	-
Channel-Temperature Rise	∆T _{ch}	Note 1	°C	-	-	80
Adjacent Channel Leakage Power	P _{adj}	$V_{DS} = 10V, f = 1.9 \text{ GHz}$ $Po = 38 \text{ dBm}$ $I_{DS} \approx 3.5A$ $\pi / 4\text{-QPSK Modula-}$ tion 600 kHz Offset	dBc	E B	-74	COM

Note 1: $\Delta T_{ch} = (V_{DS} \times I_{DS} + Pin - P_{1dB}) \times R_{th (c-c)}$

Characteristic	Symbol	Condition	Unit	Min.	Тур.	Max.
Transconductance	gm	V _{DS} = 3V I _{DS} = 3.0A	mS	14 - -	5300	- and
Pinch-off Voltage	V _{GSoff}	V _{DS} = 3V I _{DS} = 30 mA	v	-1.0	-1.9	-4.0
Saturated Drain Current	IDSS	V _{DS} = 2V V _{GS} = 0V	A	-	9.5	13.0
Gate-Source Breakdown Voltage	V _{GSO}	I _{GS} = -300 μA	v	-5	-	-
Thermal Resistance	R _{th (c-c)}	Channel to Case	°C/W	_	1.6	2.2

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Condition	Unit	Min.	Typ.	Max.
192	dBm	41.5	42.5	-
V _{DS} = 10V	dB	12.0	13.0	_

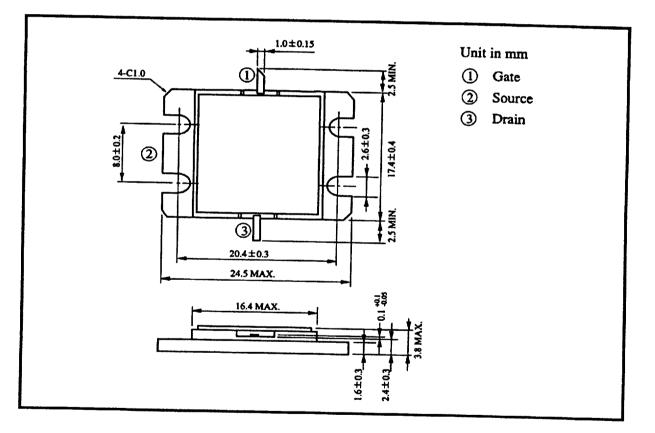


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Absolute Maximum Ratings (T_a = 25° C)

Characteristic	Symbol	Unit	Rating
Drain-Source Voltage	V _{DS}	v	15
Gate-Source Voltage	V _{GS}	v	-5
Drain Current	IDS	Α	13.0
Total Power Dissipation ($T_c = 25^{\circ}C$)	PT	W	65
Channel Temperature	T _{ch}	<u>.</u>	175
Storage Temperature	T _{stg}		-65 ~ 175

Package Outline (2-16G6A)



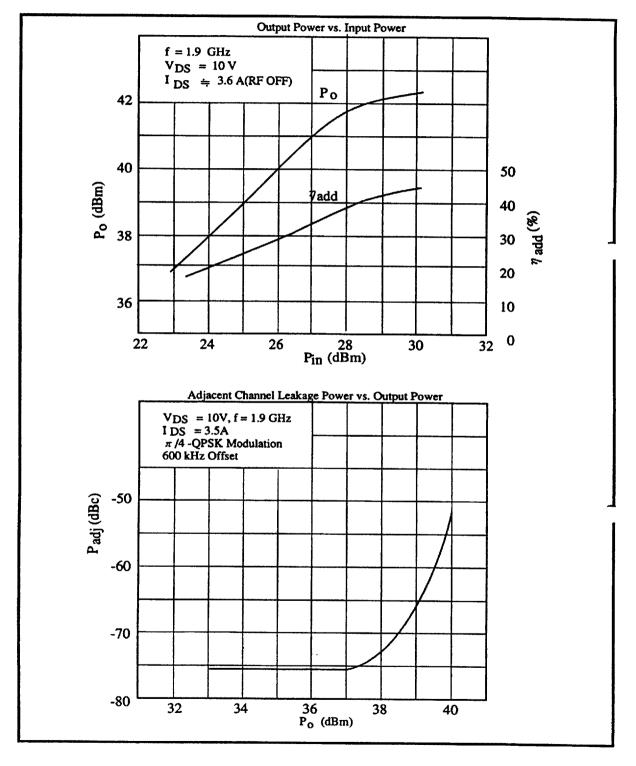
Handling Precautions for Packaged Type

- -

Soldering iron should be grounded and the operating time should not exceed 10 seconds at 260°C.



RF Performances

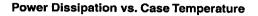


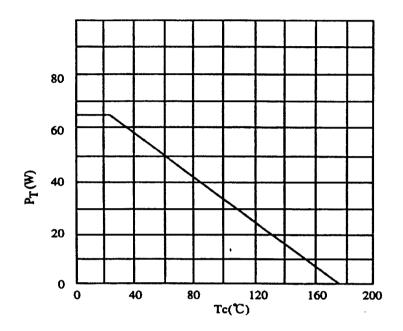
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TOSHIBA CORPORATION



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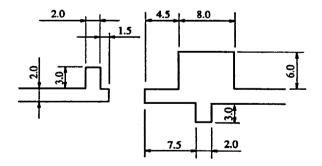




Drawing of Recommended Matching Network

INPUT

OUTPUT



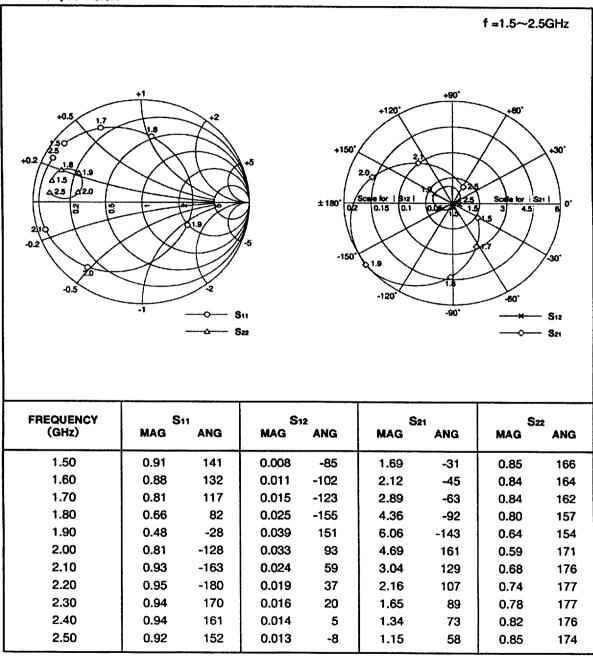
Substrate Material: Teflon (ϵ r = 2.8) Thickness: 0.76mm

Unit in mm



S9G08A S-Parameters (Magn. and Angles)

 $V_{DS} = 10V, los = 3.6A$



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