## TOSHIBA

## MICROWAVE POWER MMIC AMPLIFIER

# MICROWAVE SEMICONDUCTOR TECHNICAL DATA

TMD5872-2
PRELIMINARY

#### **FEATURES**

- High Power P1dB=34dBm(TYP.)
- High Power Added Efficiency nadd=21%(TYP.)
- High Gain G1dB=28dB(TYP.)
- Broadband Operation f=5.8-7.2GHz.

#### ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

CHARACTERISTICS	SYMBOL	UNIT	RATINGS					
DRAIN SUPPLY VOLTAGE	VDD	V	15					
GATE SUPPLY VOLTAGE	VGG	V	-10					
INPUT POWER	Pin	dBm	10					
FLANGE TEMPERATURE	Tf	°C	-30 - +80					
STORAGE TEMPERATURE	Tstg	•С	-65 - +175					

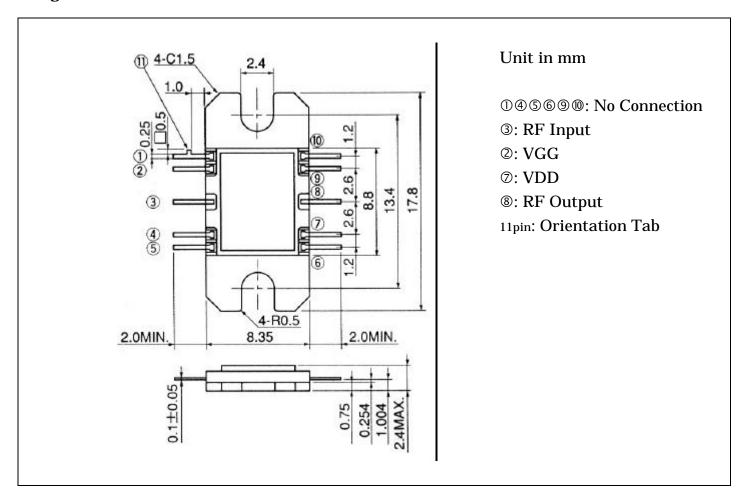
#### RF PERFORMANCE SPECIFICATIONS (Ta=25 °C)

CHARACTERISTICS	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Operaing Frequency	f		GHz	5.8	_	7.2
Output Power at 1dB	P1dB		dBm	32	34	_
Gain Compression Point		VDD=10V				
Power Gain at 1dB	G1dB	VGG=-5V	dB	25	28	-
Gain Compression Point						
Gain Flatness	G		dB	ı	ı	±2.0
Drain Current	IDD		A	I	1.2	1.6
Power Added Efficiency	ηadd		%	I	21	-
VSWRin (small signal)	VSWRin		_	_	2.0:1	3.0:1

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<sup>♦</sup> The information contained herein may be changed without prior notice. It is therefore advisable to contact TOSHIBA before proceeding with design of equipment incorporating this product.

## **Package Outline**



## **Recommended Bias Configuration**

