# TOSHIBA

MICROWAVE POWER MMIC AMPLIFIER TMD7185-2

MICROWAVE SEMICONDUCTOR

TECHNICAL DATA

## **FEATURES**

#### n HIGH POWER

P1dB=33.0dBm at 7.1GHz to 8.5GHz

n HIGH GAIN

G1dB=28.0dB at 7.1GHz to 8.5GHz

#### **n** BROAD BAND INTERNALLY MATCHED

#### n HERMETICALLY SEALED PACKAGE

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

CHARACTERISTICS	SYMBOL	UNIT	RATING	
Drain Supply Voltage	VDD	V	15	
Gate Supply Voltage	VGG	V	-10	
Input Power	Pin	dBm	10	
Flange Temperature	Tf	۰C	-30 ~ +80	
Storage Temperature	T <sub>stg</sub>	٥C	-65 ~ +175	

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

	CHARACTERISTICS	SYMBOL	CONDITIONS	UNIT	MIN.	TYP.	MAX.
	Output Power at 1dB Gain	P1dB		dBm	32.0	33.0	
	Compression Point		VDD= 10V				
	Power Gain at 1dB Gain	G1dB	VGG= -5V	dB	27.0	28.0	—
www.DataS	heCompression Point						
	Drain Current	IDD	f = 7.1 – 8.5GHz	А		1.4	1.7
	Input VSWR	VSWRin					3.0
	3 <sup>rd</sup> Order Intermodulation	IM <sub>3</sub>	Po (S.C.L.)=22.0 dBm	dBc	-42	-45	
	Distortion						

**u**The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA for any infringements of patents or other rights of the third parties which may results from its use, No license is granted by implication or otherwise under any patent or patent rights of TOSHIBA or others.

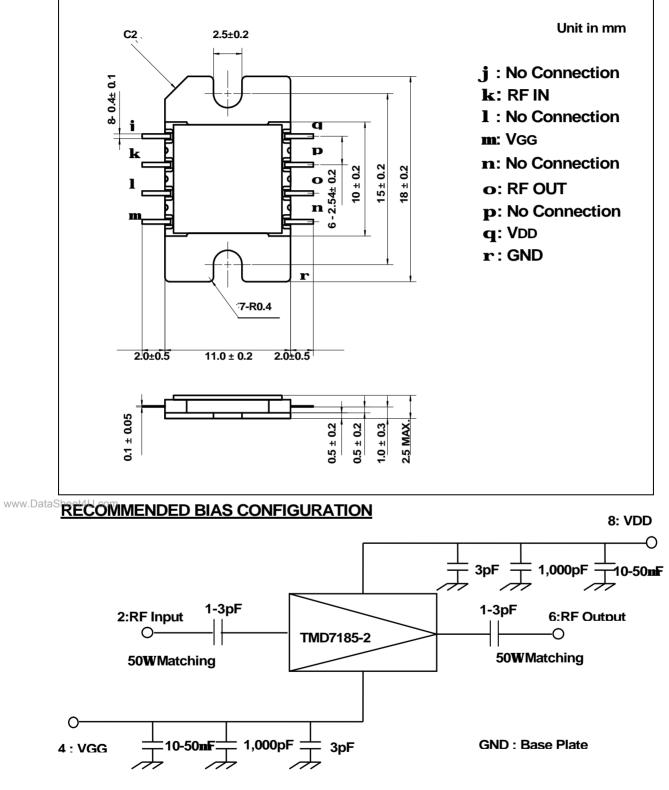
The information contained herein is subject to change without prior notice. It is therefor advisable to contact TOSHIBA before proceeding with design of equipment incorporating this product.

TOSHIBA CORPORATION

Rev. Mar.2006

TMD7185-2

### PACKAGE OUTLINE (2-11E1B)



#### HANDLING PRECAUTIONS FOR PACKAGE MODEL

Soldering iron should be grounded and the operating time should not exceed 10 seconds at 260°C. Flanges of devices should be attached using screws and washers. Recommended torque is 0.18-0.20 N·m.