

Features:

■ HIGH POWER

$P_{1dB} = 33$ dBm at 7.1 to 8.5 GHz

■ HIGH GAIN

$G_{1dB} = 22$ dB at 7.1 to 8.5 GHz

■ BROAD BAND INTERNALLY MATCHED

■ HERMETICALLY SEALED PACKAGE

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

CHARACTERISTICS	SYMBOL	UNIT	RATINGS
DRAIN SUPPLY VOLTAGE	VDD	V	15
GATE SUPPLY VOLTAGE	VGG	V	-10
INPUT POWER	Pin	W	0.1
FLANGE TEMPERATURE	Tf	°C	-30 ~ +80
STORAGE TEMPERATURE	Tstg	°C	-65 ~ +175

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

CHARACTERISTICS	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.
Output Power at 1 dB Gain Compression Point	P_{1dB}	VDD1=VDD2=VDD3= 10V,	dBm	32.0	33.0	—
Power Gain at 1 dB Gain Compression Point	G_{1dB}	VGG=-5 V f= 7.1-8.5 GHz	dB	20.0	22.0	—
Drain Current	IDD *		A	—	1.70	2.00
Input VSWR	VSWRi		—	—	—	3.0

* $IDD = IDD1 + IDD2 + IDD3$

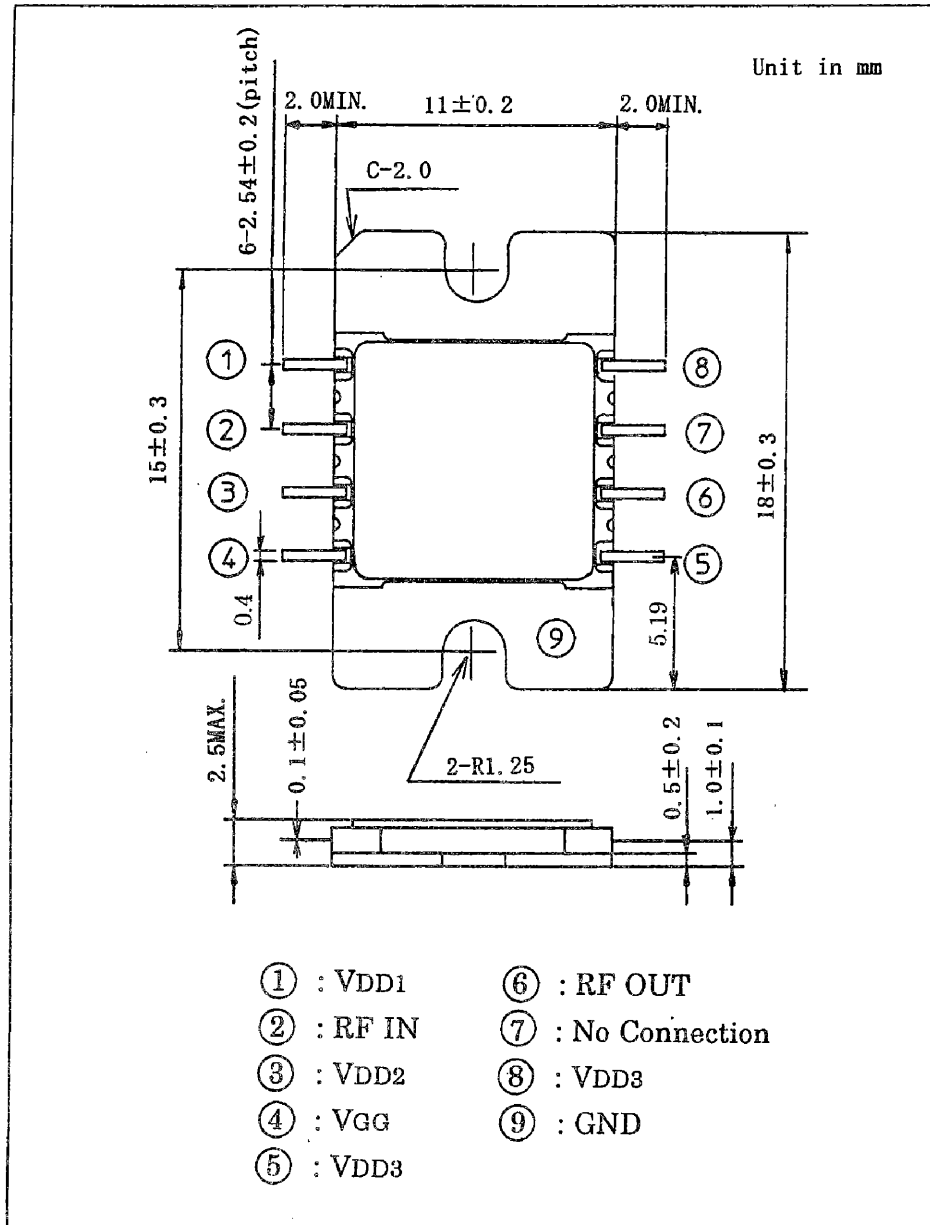
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TMD0708-2

PACKAGE OUTLINE (2-11E1A)



HANDLING PRECAUTIONS FOR PACKAGED TYPE

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 torques are 0.18-0.20 N·m.