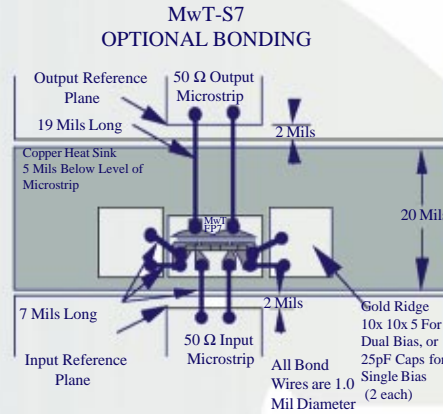
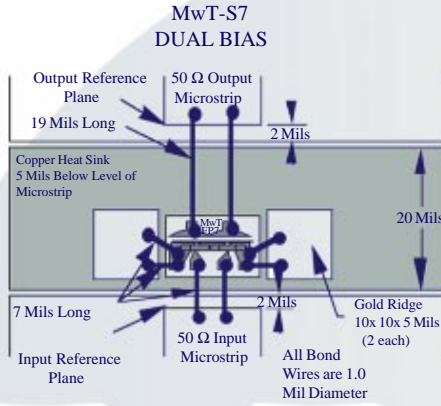


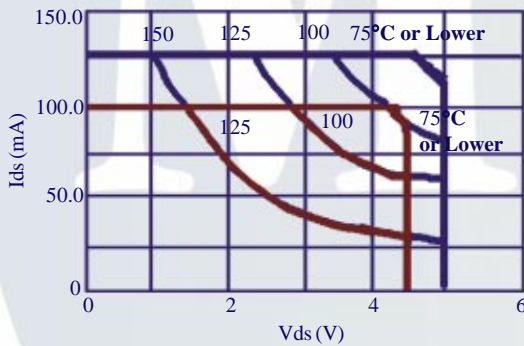


# MwT-S7

18 GHz High Gain, Low Noise  
GaAs FET



SAFE OPERATING LIMITS vs. BACKSIDE CHIP



Absolute Maximum Continuous Maximum

## MAXIMUM RATINGS AT Ta = 25°C

SYMBOL	PARAMETER	UNITS	CONT MAX <sup>1</sup>	ABSOLUTE MAX <sup>2</sup>
VDS	Drain to Source Voltage	V	See Safe Operating Limits	
Tch	Channel Temperature	°C	+150	+175
Tst	Storage Temperature	°C	-65 to +150	+175
Pin	RF Input Power	mW	50	75

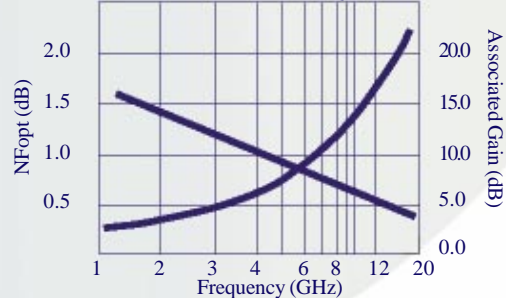
NOTES: 1. Exceeding any one of these limits in continuous operation may reduce the mean-time-to-failure below the design goals.  
2. Exceeding any one of these limits may cause permanent damage.

### TYPICAL NOISE PARAMETERS

MwT-S7LN Chip: VDS= 3.0V IDS= 5.0 mA

FREQUENCY GHz	NF MIN dB	GAMMA OPT		Rn/50
		MAG	ANGLE	
2.00	0.29	0.68	27	0.188
4.00	0.56	0.49	57	0.182
8.00	1.06	0.41	114	0.165
12.00	1.5	0.49	149	0.152
16.00	1.89	0.55	168	0.143
18.00	2.1	0.58	175	0.14

### NOISE FIGURE AND ASSOCIATED GAIN VS. FREQUENCY



### BIN SELECTION

BIN#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IDSS (mA)	26-30	30-34	34-38	38-42	42-46	46-50	50-54	54-58	58-62	62-66	66-70	70-74	74-78	78-82	82-86	86-90	90-94	94-98

### BIN ACCURACY STATEMENT

When placing order or inquiring, please specify BIN range, wafer no., if known, and screening level required.

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