

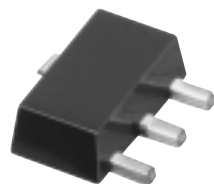
Surface Mount

Monolithic Amplifiers

NEW!

Gali-19 • Gali-29 • Gali-39
Gali-49 • Gali-59

50Ω, Broadband, DC to 7 GHz



CASE STYLE : DF782

Features

- miniature SOT-89 package
- frequency range, DC to 7 GHz
- up to 17.6 dBm typ. output power
- excellent package for heat dissipation, exposed metal bottom

Applications

- cellular
- PCS
- communication receivers & transmitters

Electrical Specifications @ 25°C

MODEL NO.	FREQ.▲ (GHz)	GAIN, dB Typical									MAXIMUM POWER, dBm at 7 GHz*			DYNAMIC RANGE at 2 GHz*		VSWR (:1) Typ.				MAXIMUM CURRENT RATING**	DC OPERATING POWER @ Pin 3***				THERMAL RESISTANCE	PRICE \$
		f _L - f _U	0.1	1	over frequency, GHz					Min. @ 2 GHz	Output (1 dB Comp.) Typ.	Input (no dmg.) Min.	NF Typ. dB	IP3 Typ. dBm	In DC-3 GHz	3-f _U GHz	Out DC-3 GHz	3-f _U GHz	I mA	Current (mA)	Device Volt			θ _{jc} , typ. °C/W	Qty. (25)	
LOW POWER	Gali-19	DC-7	12.1	11.7	11.6	10.7	10.8	10.1	14.5	9.6	10.6	9.0	15	6.5	23.7	1.6	1.7	1.5	2.3	55	40	3.6	3.2	4.0	311	1.19
	Gali-29	DC-7	15.4	15.1	14.7	13.7	13.6	12.9	14.2	12.7	11.2	10.0	15	6.0	24.7	1.5	1.6	1.5	2.3	55	40	3.6	3.2	4.0	340	1.19
	Gali-39	DC-7	20.8	21.1	19.7	17.7	17.0	16.1	17.6	9.8	10.5	9.0	13	4.9	22.9	1.6	1.8	1.5	2.3	55	35	3.5	3.1	3.9	350	1.19
MEDIUM POWER	Gali-49	DC-5	14.0	13.7	13.6	13.7	13.3	13.1	10.7	—	16.4	15.0	20	5.5	33.3	1.7	1.2	1.5	1.4	85	65	5.0	4.5	5.4	171	1.79
	Gali-59	DC-5	20.6	19.7	18.3	16.7	15.4	14.0	10.2	—	17.6	16.5	13.0	4.3	33.3	1.6	1.5	1.5	1.7	85	65	4.8	4.3	5.2	209	1.79

▲ Low frequency cutoff determined by external coupling capacitors.
* For Pout @ 1dB compression, Gali-49,-59 at 2 GHz.
For IP3, Gali-49,-59 at 1 GHz.
** Permanent damage may occur if any of these limits are exceeded.
These ratings are not intended for continuous normal operation.
***Reliability predictions and normal operating conditions are applicable at current specified.

f_U is the upper frequency limit for each model as shown in the table.

Maximum Ratings

Operating Temperature -45°C to 85°C
Storage Temperature -65°C to 150°C

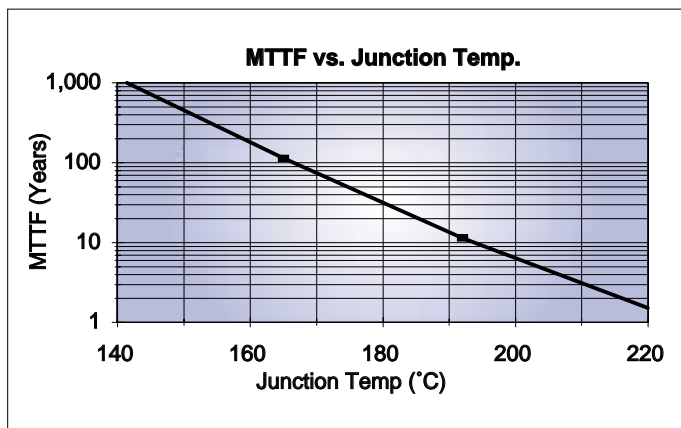
Pin Configuration

RF IN	1
RF OUT	3
DC	3
GND EXT.	2

Model Identification

Model	Marking†
Gali-19	19
Gali-29	29
Gali-39	39
Gali-49	49
Gali-59	59

† Prefix letter (optional) designates assembly location. Suffix letters (optional) are for wafer identification.



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

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REV. B
M89969
D60-1117/DOC
Gali-19 Q0201030
Gali-29 Q0201031
Gali-39 Q0201032
Gali-49 EC-9381/10
Gali-59 EC-9381/11
RS/TD/CP
031202

