

TECHNICAL REQUIREMENT 3871FG

ELECTRICAL CHARACTERISTICS (220V,+25°C, 50Ω)

PARAMETER	UNIT	MIN	TYPICAL	MAX
Frequency Range	GHz	26	/	40
P1dB	dBm	45	48	51
P3dB	dBm	48	50	52
Psat	dBm	50	51	53
Power Gain	dB	53	54	/
Small Signal Gain	dB	57	60	/
Gain Adjustment	dB	20	25	30
Power Flatness @ ALC	+/-dB	0.1	0.3	0.5
Input Power	dBm	-30	0	10
Input VSWR		/	2.0	/
Harmonic Distortion (2f _o)	dBc	/	30	/
Spurious	dBc	/	40	/

ENVIRONMENTAL CHARACTERISTICS

PARAMETER	UNIT	MIN	TYPICAL	MAX
Voltage	V (AC)	85	220	265
Current	A	6	8	10
Operating Temperature	°C	0	+25	+40
Non-Operating Temperature	°C	-40	+25	+70
Humidity (without cond.)			5%—75%	

MECHANICAL CHARACTERISTICS

PARAMETER	UNIT	MIN	TYPICAL	MAX
Dimensions W x H x D	mm	/	426×222×550	/
Weight	kg	/	≤40	/
RF Input Connector		/	2.4mm(m)	/
RF Output Connector		/	WR-28	/

TYPICAL PERFORMANCE CHARACTERISTICS

Frequency (GHz)	Power Gain (dB)	Small Signal Gain (dB)	P1dB (dBm)	P3dB (dBm)	Psat (dBm)	Harmonic Distortion (2fo) (dBc)
26.0	53.7	60.7	48.2	49.3	52.6	32.7
26.5	53.8	60.9	47.1	49.2	51.7	35.8
27.0	54.9	60.8	46.5	48.9	51.5	37.8
28.0	53.3	61.5	45.6	48.0	50.2	32.7
29.0	54.4	66.2	45.1	48.6	50.5	33.2
30.0	55.6	65.2	46.5	48.3	51.7	36.5
31.0	55.2	62.5	46.4	48.5	51.2	36.8
32.0	54.7	61.6	47.9	49.9	52.1	33.1
33.0	54.4	60.6	49.9	51.4	52.6	37.7
34.0	53.7	59.6	50.8	51.8	53.0	34.5
35.0	53.7	58.5	50.7	52.0	52.8	35.5
36.0	53.5	58.3	50.3	51.0	52.0	37.9
37.0	54.6	57.8	50.5	50.5	51.5	41.7
38.0	53.6	57.2	49.6	50.1	50.8	45.8
39.0	53.2	57.5	49.7	51.1	51.7	42.5
40.0	53.1	58.2	49.5	51.4	51.9	46.2