



MA1100-1

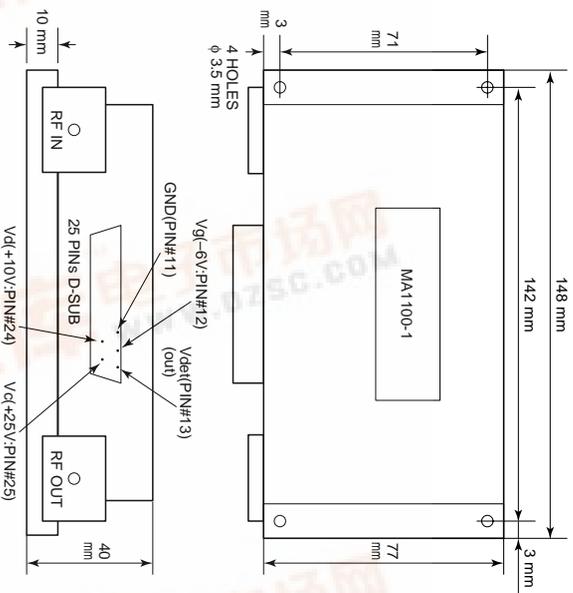
For DCS1800 - 30W Power Amplifier

MA1100-

DESCRIPTION

The MA1100-1 is a 30W power amplifier designed for DCS 1800, which comprises 4 stages GaAs FET and 2 stages Si bipolar transistors, also RF power monitoring circuit.

OUTLINE DRAWING



FEATURES

- Specified +25/+10 Volt Characteristics
- RF Output Power : +45 dBm (typ.)
- Harmonics : -65 dBc typ.
- Small Size : 77 × 148 × 40 mm³
- 50 Ohm Input/Output Impedances

APPLICATION

- DCS 1800 (1805 ~ 1880 MHz) Base station

Amplifier Specifications (MA1100-1)

1. Maximum Ratings

No.	Items	Symbol	Condition	Standard	Unit
1	Case temperature	T _c		-40 ~ +70	°C
2	Storage temperature	T _{stg}		-40 ~ +80	°C
3	Collector Voltage	V _c		+26.0	V
4	Drain Voltage	V _d	V _g = -6V	+11.5	V
5	Gate Voltage	V _g	V _d = +10V	-10.0	V
6	RF Input Power	P _{in}		-9.0	dBm

2. Electrical Performances (T_c = +25°C, V_c = +25V, V_d = +10V, V_g = -6V, Z_g = Z_l = 50Ω)

No.	Items	Symbol	Condition	Standard			Unit
				Min	Type	Max	
1	Frequency	f		1805	---	1880	MHz
2	Output Power	P _{out}		+45	---	---	dBm
3	Output RF modulation spectrum : from the carrier	---	P _{out} = +45 dBm (P _{in} control)				dB
	100 KHZ			---	---	+0.5	dB
	200 KHZ			---	---	-30	dB
	250 KHZ			---	---	-33	dB
	400 KHZ			---	---	-60	dB
	600 KHZ			---	---	-70	dB
	to < 1200 KHZ			---	---	-73	dB
	1200 KHZ			---	---	-75	dB
	to < 1800 KHZ			---	---	-75	dB
	1800 KHZ			---	---	-80	dB
	to < 6000 KHZ			---	---	-80	dB
	≥ 6000 KHZ			---	---	-80	dB
4	Spurious : in-band out-band					-36	dBm
5	Harmonics	2f ₀ 3f ₀ 4f ₀	P _{out} = +45 dBm			-30	dBm
6	Quiescent current	I _q	P _{in} = 0mW			1.5	A

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