



SARAS TECHNOLOGY LTD

creating **wireless** solutions



Key features

- Broadband frequency range
- Linear Power Amplifier
- Flat frequency response
- Single +12V DC supply
- By-Pass capability

Product:	Linear Power Amplifier with By-Pass
SARAS Type Code:	SPA010

The SPA010 is a 1W COFDM Linear Power Amplifier with By-Pass facility. The compact amplifier is in the by-pass mode with no DC applied. When the DC is applied the unit automatically gives +10dB (typ) gain. The power amplifier is designed for various applications including Wireless Video Links operating across the 1.0-2.5GHz frequency range. The amplifier is housed in compact Aluminium housing and operates from a single +12V DC supply with a current consumption of 1400mA (typ).

Item	Parameter	Units	Specification	Remark
1	Operating Frequency	MHz	2000 -2400	Other bands available
2	Gain	dB	10±1 – Amplifier Path -1dB – Thru Path	With DC applied With no DC applied
3	Gain Flatness	dB	±0.5	Over full band
4	Output Power (P1dB)	dBm	+37	1W COFDM Power
5	Linearity - ACP	µW	≤75	Compliant to EN302-064 for 1W COFDM Output Power
6	Input/Output Return Loss	dB	-10	Over operating band
7	Impedance	Ω	50	
8	DC Power Supply	V	+12	DC Power through capacitive feedthrough
9	Current Consumption	mA	1400	typ
10	Operating Temperature	°C	-10 to +50	Baseplate
11	Humidity		95% Non Condensing	
12	Dimensions	mm	96 x 49 x 18 (approx)	(Excluding connectors)
13	Connectors		SMA Female	
14	Weight	g	200	Typical

For Price and Delivery information please contact the Sales Team at
SARAS Technology Ltd.

Tel: +44 (0) 113 243 0567 Fax: +44 (0) 113 245 2997

E-mail: sales@sarastech.co.uk Web: <http://www.sarastech.co.uk/>

