



SARAS TECHNOLOGY LTD

creating wireless solutions



Key features

- Broadband frequency range
- 1W output power capability
- Flat frequency response $\pm 0.5\text{dB}$
- Integral Low Pass Filter
- Compact machined Aluminium housing for belt mount applications

| | |
|------------------|------------------|
| Product: | 1W Power Booster |
| SARAS Type Code: | SPA001 |

The SPA001 is a 1W balanced power amplifier designed for such applications as Radio MIC's usage over a large area e.g. Golf course and boosters for IEM transmitters. The SPA001 power amplifier is housed in compact Aluminium housing with an integral heatsink and Low Pass Filter. The dc current consumption of the amplifier is typically 370mA from a +12v supply

| Item | Specification | Units | Min | Typ | Max | Remark |
|------|----------------------|-------|---|-----|-----|---------------------------------------|
| 1 | Operating Frequency | MHz | 470 | | 870 | |
| 2 | Gain | dB | | 18 | | |
| 3 | Passband Return Loss | dB | 15 | | | Over operating band |
| 4 | Output Power | W | 1 | | | With 30mW input |
| 5 | Impedance | | | 50 | | |
| 6 | Power Supply | V | 9 | 12 | 18 | DC Power through 2-pin LEMO Connector |
| 7 | Current Consumption | mA | | 370 | 400 | |
| 8 | Dimensions | mm | 95 x 55 x 30 | | | Excluding connectors |
| 9 | Connector | | Input =SMA Female, Output=BNC Female | | | Other options available |

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

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