



AWSPA Series Power Amplifiers



The AWS series of power amplifiers, operating on the 2.4 GHz ISM band are high performance two-way amplifiers that utilize Time Division Duplex (TDD) technology. They are used outdoors to extend the range of wireless radio communication system applications such as Wireless Local Loop (WLL), Wireless Local Area Network (WLAN), Wireless Internet Access (WIA), in a point-to-point or point-to-multipoint configuration. The units are compatible with TDD radio devices including IEEE 802.11b/g standards, DSSS (Direct Sequence Spread Spectrum), FHSS (Frequency Hopping Spread Spectrum) and RS-232 devices.

APPLICATIONS

Computer control rooms
 Educational institutions
 Manufacturing facilities
 Server farms
 Transmitter/Receiver stations
 Commercial offices

RF Characteristics

Standards	IEEE 802.11g / 802.11b compatible
Operating Frequency Range	2400~2500MHz
Operating Mode	Bi-directional
Transmitter Output Power	0.5W / 1W (2W / 4W available outside the U.S. only)
Transmitter Input Power	2 dBm (min.) / 15 dBm (max.)
Receiver Input Power	-16 dBm (max.)
Receiver Gain	AWSPA241W 16 dB typical AWSPA242W / 4W 20 dB typical
Frequency Response Flatness	+/- 1 dB over operating range
Noise Figures	< 4 dB
SAWStch Time	< 1.5 μ s
Connector	N-type (jack); 50 ohm

PowerConsumption

AWSPA245M	55mA @9V DC
AWSPA241W	485mA @ 12V DC
AWSPA242W	1.3 A @ 12V DC
AWSPA244W	1.8 A @ 12V DC

Physical

Dimensions	AWSPA241W 120 (L) x 72 (W) 17.5 (H); mm AWSPA242W / 4W 147 (L) x 88 (W) 28 (H); mm
Weight	AWSPA241W 380 g AWSPA242W / 4W 500 g

environment

Operating Temperature	-30 deg. C ~ 60 deg. C
Storage Temperature	-40 deg. C ~ 70 deg. C
Humidity	95% non-condensing