AWSPA Series Power Amplifiers

APPLIED WIRELESS SOLUTIONS

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 requency Hopping Spread Spectrum) and RS-232 devices.

APPLICATIONS

Computer control rooms
Educational institutions
Manufacturing facilities
Server farms
Transmitter/Reciever 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 typica
Frequency Response Flatness	+/- 1 dB over operating range	
Noise Figures	< 4 dB	
SAWStch Time	< 1.5 µs	
Connector	N-type (jack); 50 ohm	
PowerConsumption		
AWSPA245M	55mA @9V DC	
AWSPA241W	485mA @ 12V DC	
AWSPA242W	1.3A @ 12V DC	
AWSPA244W	1.8A @ 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	

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