

WAT06 Series

DC – 6 GHz, 20W UP TO 30 dB PRECISION ATTENUATOR

April 2013, REV C



Key Features

- DC ~ 6 GHz, 50 Ohm impedance
- UP to 30 dB attenuation
- 20W CW RF power handling
- 1.2:1 VSWR
- Precision machined housing
- RoHS compliant

Applications

- Wideband power attenuation
- High power measurement
- High power IP₃ measurement
- RF bench tests



Absolute Maximum Ratings

Input CW RF Power	20 W
DC Voltage, V _{dd}	+32V
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Ordering Information

Model	Attenuation, dB
WAT06Ax	3.5
WAT06Bx	10
WAT06Cx	15
WAT06Dx	20
WAT06Ex	30
WAT06Fx	6

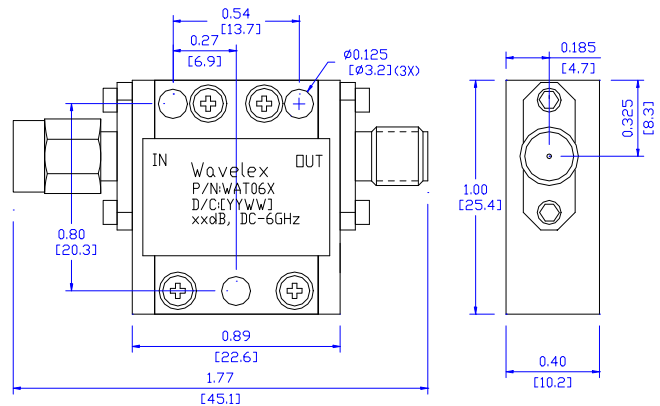
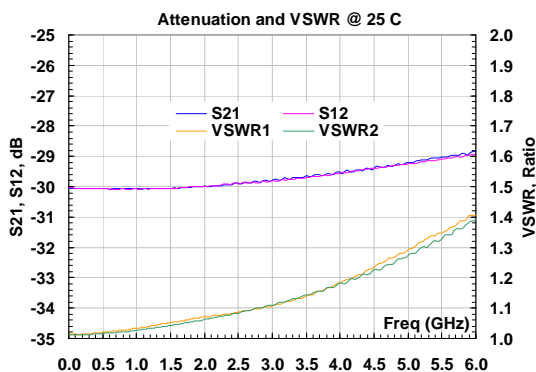
SMA Connectors

x	Input	Output
1	Male	Female
2	Female	Female
3	Male	Male
4	Female	Male

Specifications (Tested at +25°C, WAT06Ex)

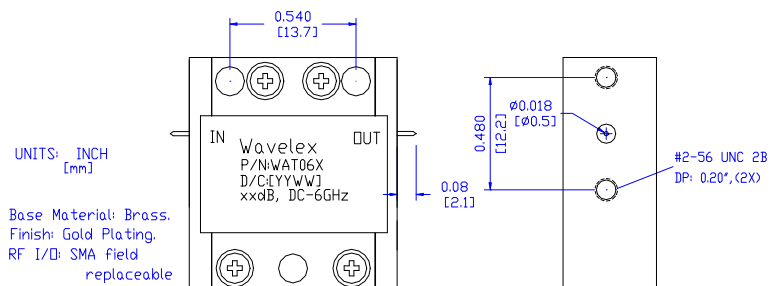
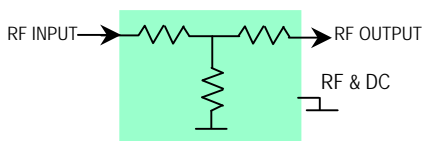
tem	Symbol	Test Constraints	Min	Nom	Max	Unit
Frequency Range	BW	50 Ohm Impedance	DC		6.0	GHz
Attenuation	S ₂₁	DC – 6.0 GHz	28.7	30	30.7	dB
Attenuation Variation	ΔS ₂₁	DC – 6.0 GHz			+/-1.0	dB
VSWR	SWR _i	DC – 6.0 GHz		1.2:1	1.5:1	Ratio
Power Handling	P _{in}	DC – 6.0 GHz			20	W
Operating Voltage	V _{dd}				32	V
Operating Temperature	T _o		-40		+85	°C
Thermal Resistance	R _{th,c}	Junction to case			8	°C/W

Typical Performance



Outline, IP-11

Functional Block Diagram



! Additional heat sink is required for continuous operation!