

**Actipass Co., Ltd.**

451, Hagal-Dong, Giheung-Gu, Yongin-Si, Kyunggi-Do, Korea

TEL : 82-31-201-7589 FAX : 82-31-204-7502

E-Mail : [steve@actipass.com](mailto:steve@actipass.com) / actipass@actipass.com www.actipass.com

## SYNTHESIZER

### 1. ADSZ SERIES (DDS SYNTHESIZER)



#### ▸ Features

- ▣ LOW PHASE NOISE
- ▣ WIDE BANDWIDTH
- ▣ LOW CURRENT CONSUMPTION
- ▣ HIGH OUTPUT POWER
- ▣ CONTROL USE DDSUR

#### ▸ Applications

- ▣ TRANSMITTER/RECEIVER
- ▣ UP/DOWN CONVERTER
- ▣ SATELLITE COMMUNICATION
- ▣ DIGITAL RADIOS
- ▣ RF TEST EQUIPMENT
- ▣ GLOBAL POSITIONING SYSTEM

#### ▸ Specifications

		ADSZ-6000U	REMARKS
Frequency Range		4000 ~ 8000MHz	
Phase Noise (dBc/Hz)	1KHz	-65 dBc/Hz	
	10KHz	-70 dBc/Hz	
	100KHz	-90 dBc/Hz	
	1MHz	-110 dBc/Hz	
Output Power Level		+12dBm min..	@ +25℃
Harmonics		<-20dBc	
Spurious	0~1MHz form Carrier	<-60dBc	
	> 1MHz	<-70dBc	
Frequency Resolution		1Hz	
Switching Time over Full Band		<50mS	
Frequency Control		Serial Line	
External Reference Frequency		40MHz	
Operating Temperature		-10 ~ +60℃	
Power Supply		+20V/100mA, +6V/250mA	
Dimension (W*D*H)		65 * 65 * 25	Unit:mm
Connector		SMA(F) Type	

\* The specification can be modified upon buyer's requests.

\* All specifications are subject to change without notice.

\* The latest specifications are available at [www.actipass.com](http://www.actipass.com)

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▢ **Features**

- ▣ LOW PHASE NOISE
- ▣ LOW POWER CONSUMPTION
- ▣ AVAILABLE FROM 3 ~ 27 GHz
- ▣ FIELD ADJUSTABLE TUNING

▢ **Applications**

- ▣ LMDS/LMCS
- ▣ TRANSMITTER/RECEIVER
- ▣ UP-CONVERTER
- ▣ SATELLITE COMMUNICATION
- ▣ DIGITAL RADIOS
- ▣ MISSILE GUIDANCE
- ▣ RF TEST EQUIPMENT
- ▣ GLOBAL POSITIONING SYSTEM
- ▣ LOCAL AREA NETWORK

▢ **Specifications**

	Lower Band Type	Upper Band Type
RF Frequency Band	RF-70MHz (7745~7945MHz)	RF+70MHz (8055~8255MHz)
Phase Noise (dBc/Hz)	7675~7875MHz	8125~8325MHz
100Hz	-80 dBc/Hz	-80 dBc/Hz
1KHz	-90 dBc/Hz	-90 dBc/Hz
10KHz	-100 dBc/Hz	-100 dBc/Hz
100KHz	-110 dBc/Hz	-110 dBc/Hz
1MHz	-125 dBc/Hz	-125 dBc/Hz
Output Power Level	Above +17dBm @25°C	Above +17dBm @25°C
Harmonics	<-20dBc	<-20dBc
Spurious	<-65dBc	<-65dBc
Frequency Stability	±5ppm Over Full Temp	±5ppm Over Full Temp
Operating Temperature	-10~+60°C	-10~+60°C
Function	Lock Alarm, Reference Status, Output Power Monitoring	

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**Specifications**

Parameters	AMWS-90200
RF Frequency Band	8GHz $\pm$ 150MHz
Phase Noise [dBc] (*)	min. 75 @ 1KHz min. 93 @ 10KHz min. 105 @ 100KHz min. 120 @ 1MHz
Output Power [dBm]	+12dBm $\pm$ 2dB
Ref. Input Power [dBm]	-3 ~ +5
Frequency Step [KHz]	250
Spurious [dBc]	-60
Harmonics [dBc]	-20
Sub Harmonics [dBc]	< -50
Switching Speed [ms]	max. 10
Dimension (WxLxH) [mm]	60 x 60 x 25 max.

(\*) Depend on Reference OSC.

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- \* The latest specifications are available at [www.actipass.com](http://www.actipass.com)