



#### NOISE SOURCES

[WGNS-28 - 26.5-40GHz](#)

[WGNS-19 - 40-60GHz](#)

[WGNS-15 - 50-75GHz](#)

[WGNS-12 - 60-90GHz](#)

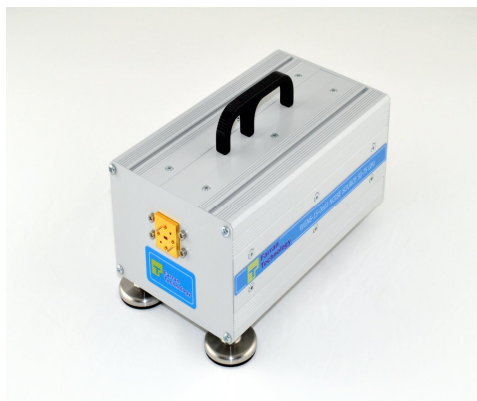
[WGNS-10-0005 - 75-110GHz](#)

[WGNS-06 - 110-170GHz](#)

## Datasheet

### Description

Farran Technology offers the WGNS series of noise sources to be used in conjunction with the FBC down converters for use as frequency extenders for noise figure measurement test system. The WGNS-XX is a fullband noise source. The WGNS-06 covers the full D band 110 . 170 GHz.



### Features

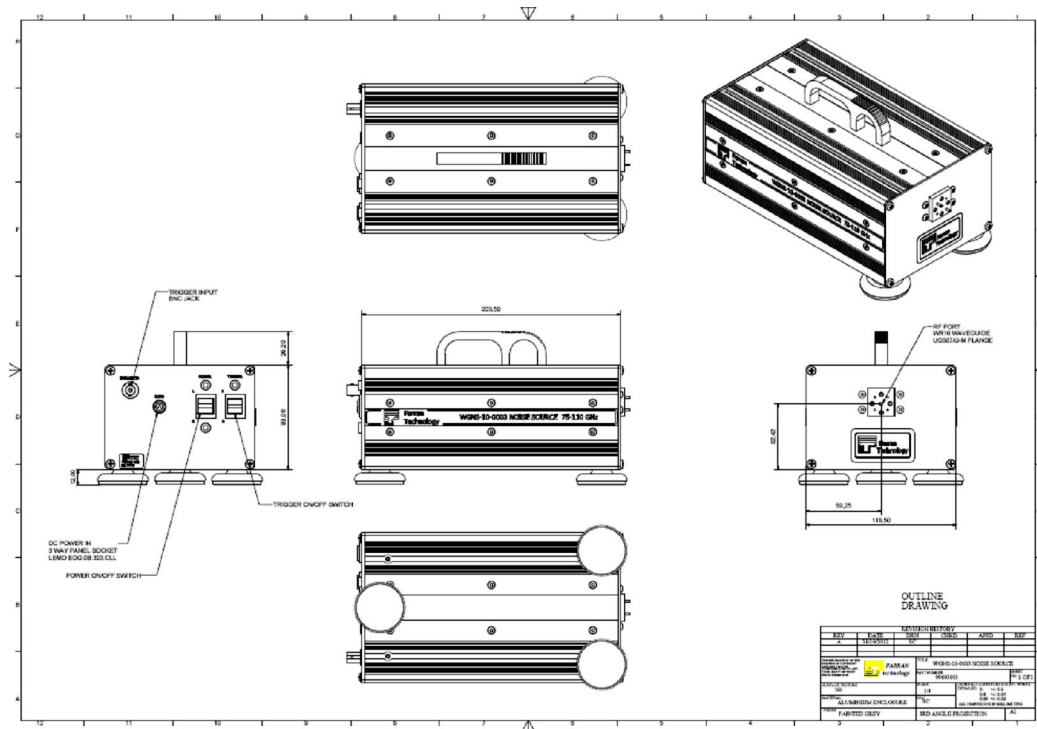
- ~ Full waveguide band
- ~ High ENR
- ~ Uniform level of noise power spectral density
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Convenient packing to match the VNA frequency extension

### Applications

- ~ Frequency extenders for noise figure measurement systems
- ~ Communications
- ~ OEM test instrumentation
- ~ EW and ECM systems
- ~ Radar front ends

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	110		170
ENR	dB		11.5	
Trigger Voltage	V		+28	
Pause between triggering pulses	ms	0.5		
VSWR				1.4:1
Test Port Interface	-	WR-06 UG-387/U-M		
Trigger connector	-	BNC (F)		
Power Requirements	-	240/110 V AC		
Weight	kg		3.5	
Dimensions (L x W x H)	-	200 x 120 x 90		

**Datasheet**



## Datasheet

### Description

Farran Technology offers the WGNS series of noise sources to be used in conjunction with the FBC down converters for use as frequency extenders for noise figure measurement test system. The WGNS-XX is a fullband noise source. The WGNS-10 covers the full W band 70 – 110 GHz.



### Features

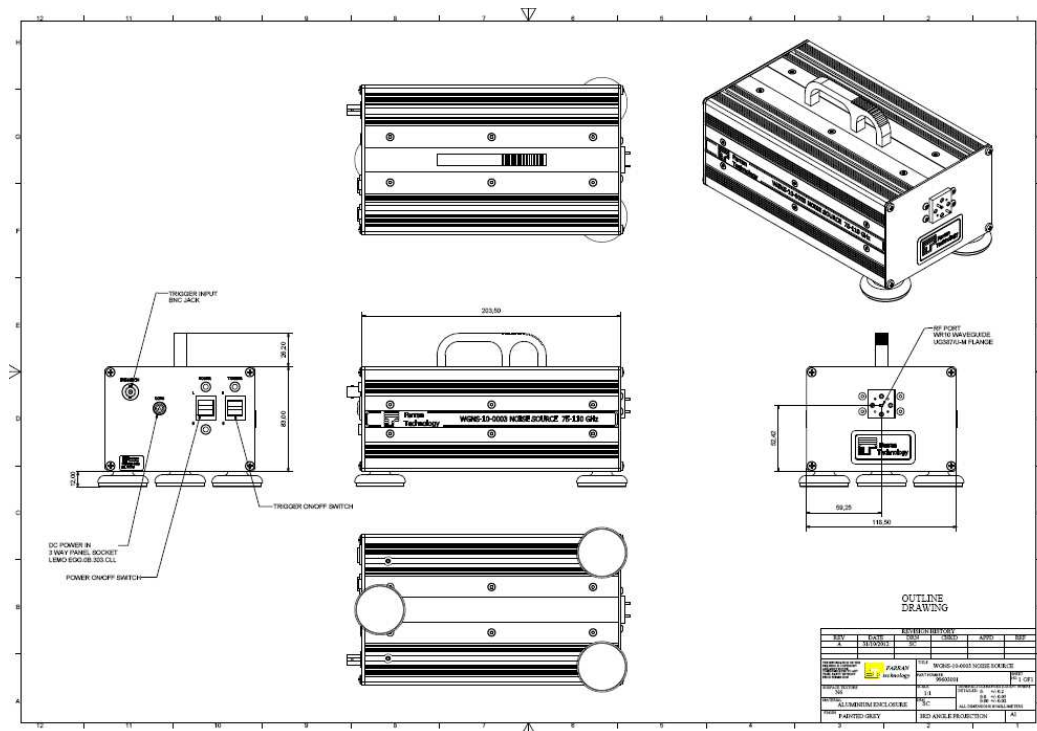
- Full waveguide band
- High ENR
- Uniform level of noise power spectral density
- Compatible with Agilent NFA
- Compatible with Agilent PXA with noise figure personality
- Convenient packing to match the VNA frequency extension

### Applications

- Frequency extenders for noise figure measurement systems
- Communications
- OEM test instrumentation
- EW and ECM systems
- Radar front ends

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	70		110
ENR	dB		11.5	
Trigger Voltage	V		+28	
Pause between triggering pulses	ms	0.5		
VSWR				1.4:1
Test Port Interface	-	WR-10 UG-387/U-M		
Trigger connector	-	BNC (F)		
Power Requirements	-	240/110 V AC		
Weight	kg		3.5	
Dimensions (L x W x H)	-	200 x 120 x 90		

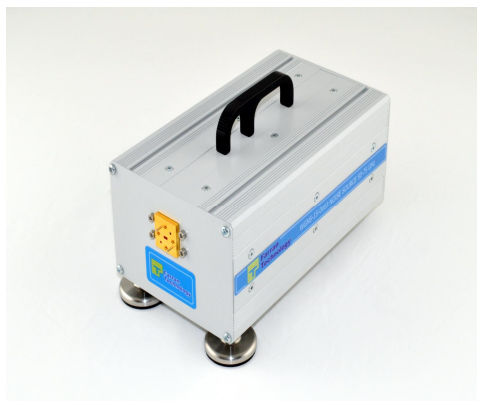
## Datasheet



## Datasheet

### Description

Farran Technology offers the WGNS series of noise sources to be used in conjunction with the FBC down converters for use as frequency extenders for noise figure measurement test system. The WGNS-XX is a fullband noise source. The WGNS-12 covers the full E band 60 . 90 GHz.



### Features

- ~ Full waveguide band
- ~ High ENR
- ~ Uniform level of noise power spectral density
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Convenient packing to match the VNA frequency extension

### Applications

- ~ Frequency extenders for noise figure measurement systems
- ~ Communications
- ~ OEM test instrumentation
- ~ EW and ECM systems
- ~ Radar front ends

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	60		90
ENR	dB		12.5	
Trigger Voltage	V		+28	
Pause between triggering pulses	ms	0.5		
VSWR				1.4:1
Test Port Interface	-	WR-12 UG-387/U		
Trigger connector	-	BNC (F)		
Power Requirements	-	240/110 V AC		
Weight	kg		3.5	
Dimensions (L x W x H)	-	200 x 120 x 90		

## Datasheet

### Description

Farran Technology offers the WGNS series of noise sources to be used in conjunction with the FBC down converters for use as frequency extenders for noise figure measurement test system. The WGNS-XX is a fullband noise source. The WGNS-15 covers the full W band 50 . 75 GHz.



### Features

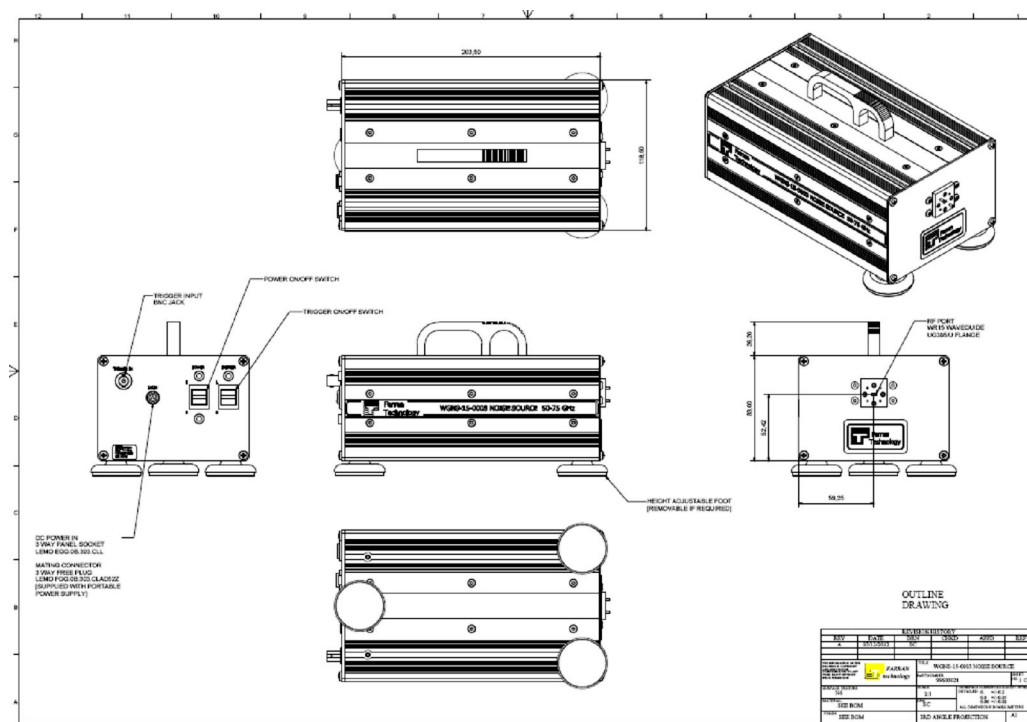
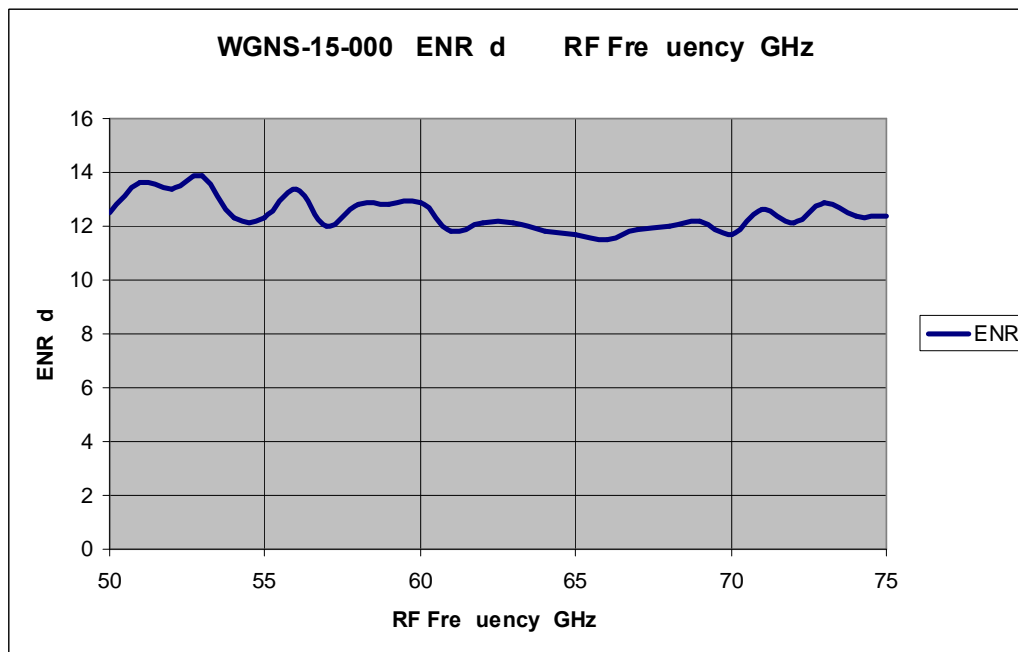
- ~ Full waveguide band
- ~ High ENR
- ~ Uniform level of noise power spectral density
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Convenient packing to match the VNA frequency extension

### Applications

- ~ Frequency extenders for noise figure measurement systems
- ~ Communications
- ~ OEM test instrumentation
- ~ EW and ECM systems
- ~ Radar front ends

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	50		75
ENR	dB		12.5	
Trigger Voltage	V		+28	
Pause between triggering pulses	ms	0.5		
VSWR				1.4:1
Test Port Interface	-	WR-15 UG-385/U		
Trigger connector	-	BNC (F)		
Power Requirements	-	240/110 V AC		
Weight	kg		3.5	
Dimensions (L x W x H)	-	200 x 120 x 90		

**Datasheet**

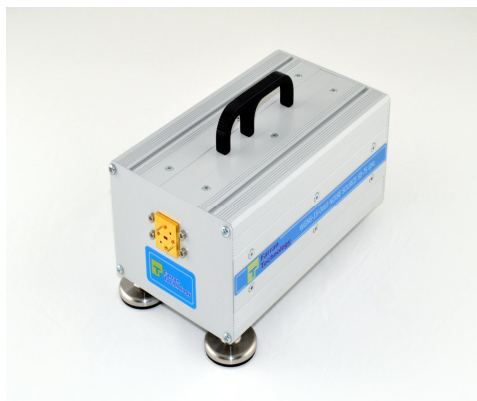




## Datasheet

### Description

Farran Technology offers the WGNS series of noise sources to be used in conjunction with the FBC down converters for use as frequency extenders for noise figure measurement test system. The WGNS-XX is a fullband noise source. The WGNS-19 covers the full U band 40 . 60 GHz.



### Features

- ~ Full waveguide band
- ~ High ENR
- ~ Uniform level of noise power spectral density
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Convenient packing to match the VNA frequency extension

### Applications

- ~ Frequency extenders for noise figure measurement systems
- ~ Communications
- ~ OEM test instrumentation
- ~ EW and ECM systems
- ~ Radar front ends

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	40		60
ENR	dB		12.5	
Trigger Voltage	V		+28	
Pause between triggering pulses	ms	0.5		
VSWR				1.4:1
Test Port Interface	-	WR-19 UG-383/U-M		
Trigger connector	-	BNC (F)		
Power Requirements	-	240/110 V AC		
Weight	kg		3.5	
Dimensions (L x W x H)	-	200 x 120 x 90		

## Datasheet

### Description

Farran Technology offers the WGNS series of noise sources to be used in conjunction with the FBC down converters for use as frequency extenders for noise figure measurement test system. The WGNS-XX is a fullband noise source. The WGNS-28 covers the full Ka band 26.5 . 40 GHz.



### Features

- ~ Full waveguide band
- ~ High ENR
- ~ Uniform level of noise power spectral density
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Convenient packing to match the VNA frequency extension

### Applications

- ~ Frequency extenders for noise figure measurement systems
- ~ Communications
- ~ OEM test instrumentation
- ~ EW and ECM systems
- ~ Radar front ends

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	26.5		40
ENR	dB		14.5	
Trigger Voltage	V		+28	
Pause between triggering pulses	ms	0.5		
VSWR				1.4:1
Test Port Interface	-	WR-28 UG-599/U		
Trigger connector	-	BNC (F)		
Power Requirements	-	240/110 V AC		
Weight	kg		3.5	
Dimensions (L x W x H)	-	200 x 120 x 90		