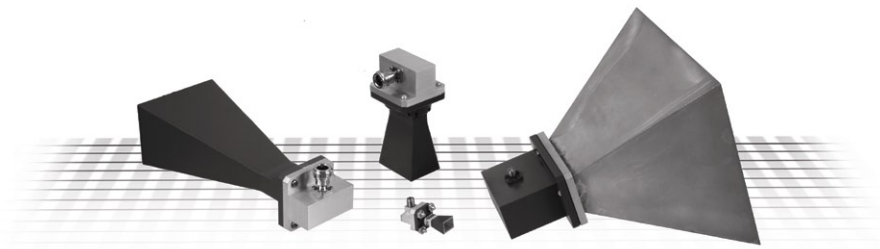


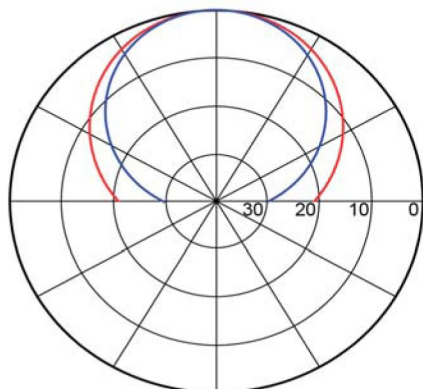
Product Features

- Standard Waveguide Sizes
- 1.70-40 GHz
- Gain 10, 15, & 20 dB
- 15 Octave bands

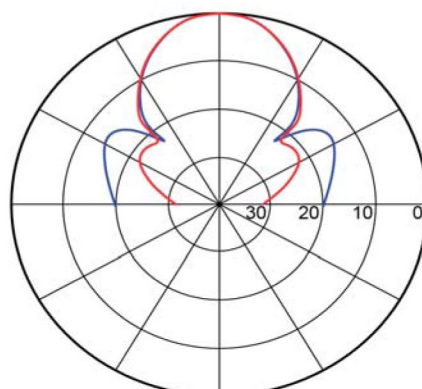


Specifications ⁽¹⁾

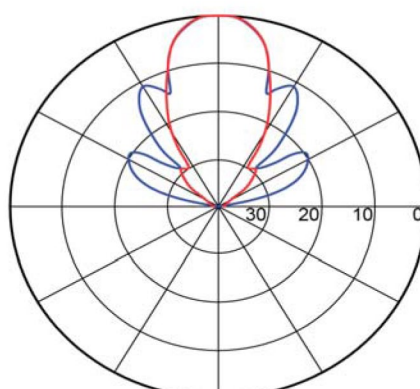
Parameter	Value	Units	Description
Impedance	50	Ohms	
Minimum Frequency	1.70	GHz	
Maximum Frequency	40	GHz	
Polarization	Linear		
VSWR	1.25		
Body	Aluminum		
Flanges	STD UG Flanges		
Connector	SMA Female 2.92mm Female		Stainless Steel, 1.7 to 18 GHz Stainless Steel, 18 GHz to 40 GHz



— Typical Pattern, E-Plane
— Typical Pattern, H-Plane
10 dBi



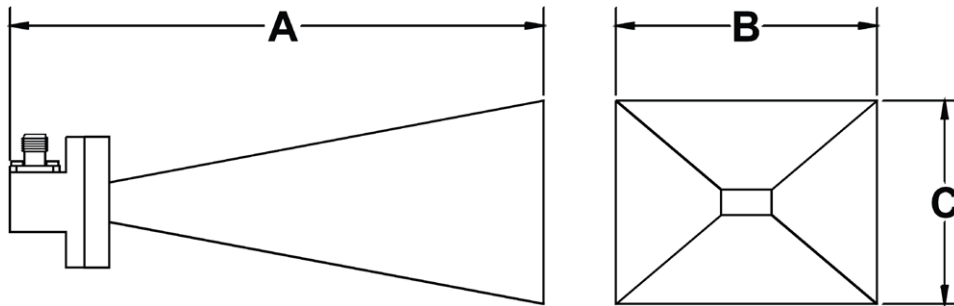
— Typical Pattern, E-Plane
— Typical Pattern, H-Plane
15 dBi



— Typical Pattern, E-Plane
— Typical Pattern, H-Plane
20 dBi

(1) Pasternack reserves the right to change specifications or information without notice.

(2) All Specifications "typical"



Specifications ⁽¹⁾ & Ordering Information

SMA/2.92mm CONNECTOR MODEL NO.	Description	WAVEGUIDE SIZE	FREQUENCY RANGE (DC TO GHz)	GAIN	3 dB Width		Dimensions		
					E-Plane	H-Plane	A	B	C
PE9850/2F-10 PE9850/2F-15 PE9850/2F-20	WR28 Standard Gain Horn with 2.92mm Female Connector 10, 15 & 20 dB Gain	WR28	26.50-40.00	10 dB 15 dB 20 dB	54.2° 32.1° 16.7°	54.4° 31.3° 18.3°	1.56 2.44 3.69	0.50 0.84 1.45	0.40 0.62 1.10
PE9851/2F-10 PE9851/2F-15 PE9851/2F-20	WR34 Standard Gain Horn with 2.92mm Female Connector 10, 15 & 20 dB Gain	WR34	22.00-33.00	10 dB 15 dB 20 dB	54.1° 23.1° 17.0°	53.2° 40.8° 17.4°	1.68 2.67 4.13	0.65 1.07 1.86	0.50 0.82 1.40
PE9852/2F-10 PE9852/2F-15 PE9852/2F-20	WR42 Standard Gain Horn with 2.92mm Female Connector 10, 15 & 20 dB Gain	WR42	18.00-26.50	10 dB 15 dB 20 dB	58.0° 31.3° 17.5°	57.0° 31.5° 17.8°	1.94 3.06 4.72	0.69 1.22 2.26	0.52 0.92 1.77
PE9853/SF-10 PE9853/SF-15 PE9853/SF-20	WR51 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR51	15.00-22.00	10 dB 15 dB 20 dB	55.1° 32.0° 16.9°	54.2° 31.8° 18.0°	2.07 8.30 5.65	0.89 1.60 2.60	0.70 1.16 2.04
PE9854/SF-10 PE9854/SF-15 PE9854/SF-20	WR62 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR62	12.40-18.00	10 dB 15 dB 20 dB	55.3° 30.1° 18.8°	50.9° 31.2° 18.9°	2.00 3.48 6.80	1.15 1.88 3.00	0.82 1.47 2.24
PE9855/SF-10 PE9855/SF-15 PE9855/SF-20	WR75 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR75	10.00-15.00	10 dB 15 dB 20 dB	50.2° 35.4° 16.3°	49.2° 28.5° 17.2°	2.88 5.70 8.85	1.39 2.36 4.00	1.04 1.45 3.10
PE9856/SF-10 PE9856/SF-15 PE9856/SF-20	WR90 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR90	8.20-12.40	10 dB 15 dB 20 dB	48.5° 29.3° 16.1°	47.4° 29.0° 16.5°	2.82 6.45 11.06	1.70 2.80 5.00	1.27 2.05 3.70
PE9857/SF-10 PE9857/SF-15 PE9857/SF-20	WR102 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR102	7.00-11.00	10 dB 15 dB 20 dB	55.5° 29.6° 17.0°	54.1° 29.3° 16.7°	4.13 7.28 12.28	1.69 2.40 5.68	1.27 3.15 4.04
PE9858/SF-10 PE9858/SF-15 PE9858/SF-20	WR112 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR112	7.05-10.00	10 dB 15 dB 20 dB	56.8° 32.4° 19.3°	55.2° 32.0° 19.3°	4.02 7.79 12.27	1.75 3.05 5.10	1.30 2.25 3.77
PE9859/SF-10 PE9859/SF-15 PE9859/SF-20	WR137 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR137	5.85-8.20	10 dB 15 dB 20 dB	55.1° 33.7° 18.7°	54.2° 33.2° 18.8°	4.41 7.80 13.45	2.15 3.53 6.45	1.60 2.60 4.65
PE9860/SF-10 PE9860/SF-15 PE9860/SF-20	WR159 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR159	4.90-7.05	10 dB 15 dB 20 dB	59.8° 31.3° 14.3°	48.3° 30.8° 16.9°	6.04 9.66 13.38	2.80 4.43 10.00	1.70 3.27 7.80
PE9861/SF-10 PE9861/SF-15 PE9861/SF-20	WR187 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR187	3.95-5.85	10 dB 15 dB 20 dB	55.0° 33.8° 18.9°	54.1° 33.3° 19.2°	17.51 11.28 16.88	3.29 4.98 9.08	2.19 3.67 6.70
PE9862/SF-10 PE9862/SF-15 PE9862/SF-20	WR229 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR229	3.30-4.90	10 dB 15 dB 20 dB	58.6° 32.7° 17.1°	51.9° 32.4° 16.7°	17.98 7.05 25.63	3.71 6.63 12.40	2.73 6.00 8.75
PE9863/SF-10 PE9863/SF-15 PE9863/SF-20	WR284 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR284	2.60-3.95	10 dB 15 dB 20 dB	50.8° 31.0° 17.2°	54.1° 30.6° 16.5°	9.90 23.15 32.15	4.40 9.00 15.70	3.58 5.60 10.80
PE9864/SF-10 PE9864/SF-15 PE9864/SF-20	WR430 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain	WR430	1.70-2.60	10 dB 15 dB 20 dB	64.8° 33.1° 17.3°	45.4° 32.0° 17.4°	14.00 26.6 44.00	8.15 11.85 22.25	4.14 8.50 16.20

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