

Log Periodic Antenna 7dBi Typ. Gain, 1-6GHz Frequency Range

Log Periodic Antenna Data Sheet

RM-LPA16-7

Features

- Foldable
- Low VSWR
- Light Weight
- Rugged Construction
- Ideal for EMC testing

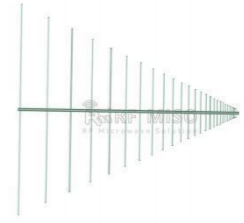
Descriptions

RF MISO's **Model RM-LPA16-7** is log periodic antenna that operates from 1 to 6 GHz, The antenna offers 7dBi typical gain. The antenna VSWR is 1.4Typ. The antenna RF ports are N-Female connector. The antenna can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

Specifications

RM-LPA16-7		
Parameters	Specifications	Units
Frequency Range	1-6	GHz
Gain	7 Typ.	dBi
VSWR	1.4 Typ.	
Polarization	Linear-polarized	
Connector	N-Female	
Size (L*W*H)	443.9*414.6*51.2(±5)	mm
Weight	0.224	kg

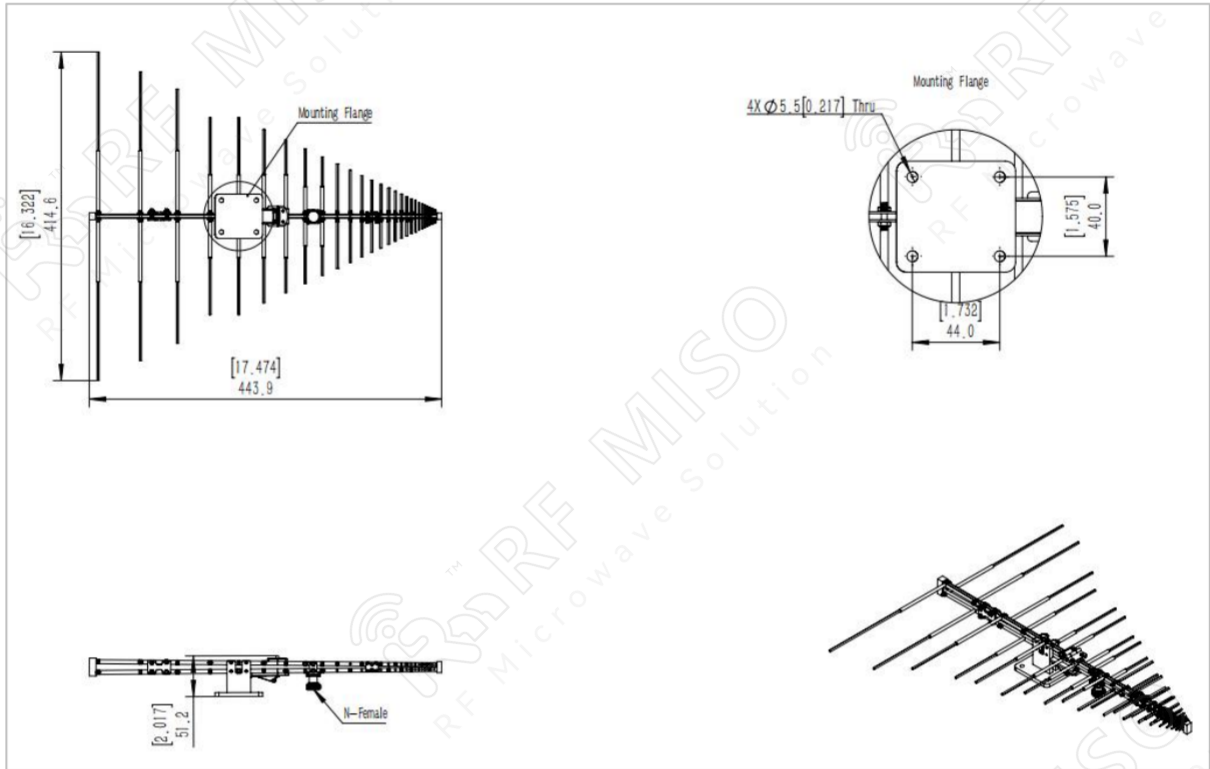
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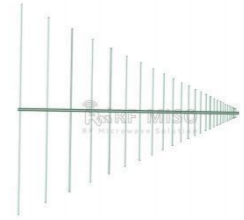


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Outline Drawing



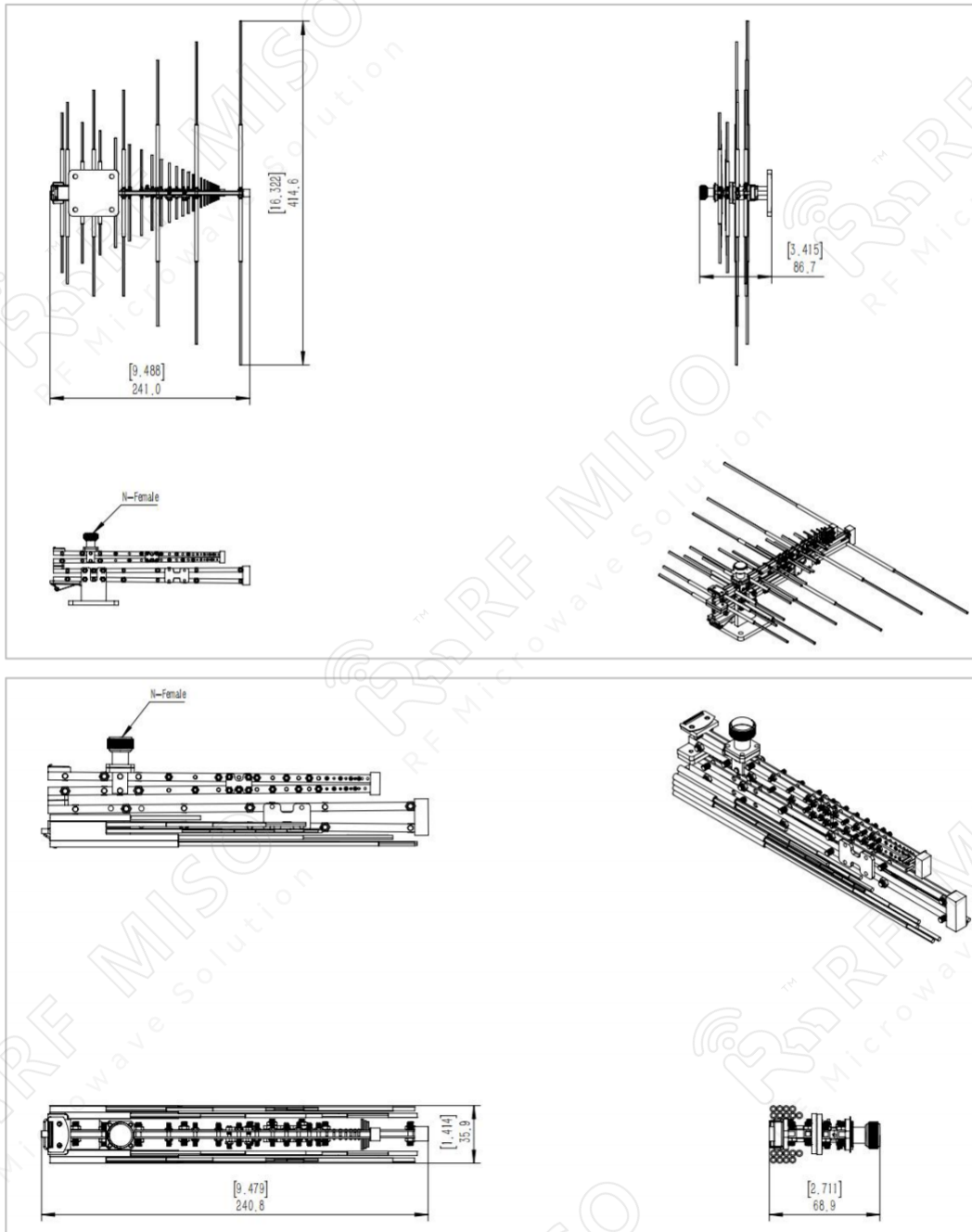


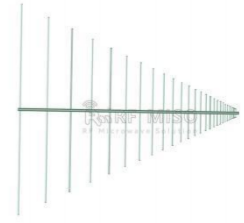
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Outline Drawing_After Folding





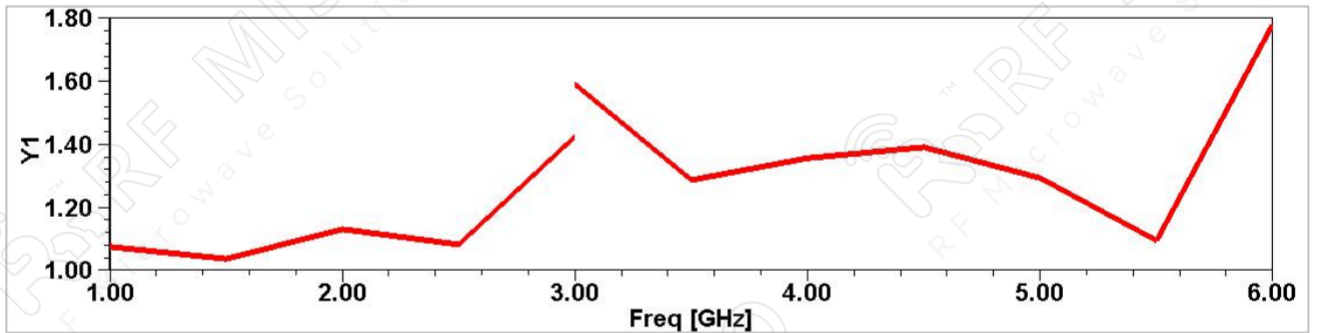
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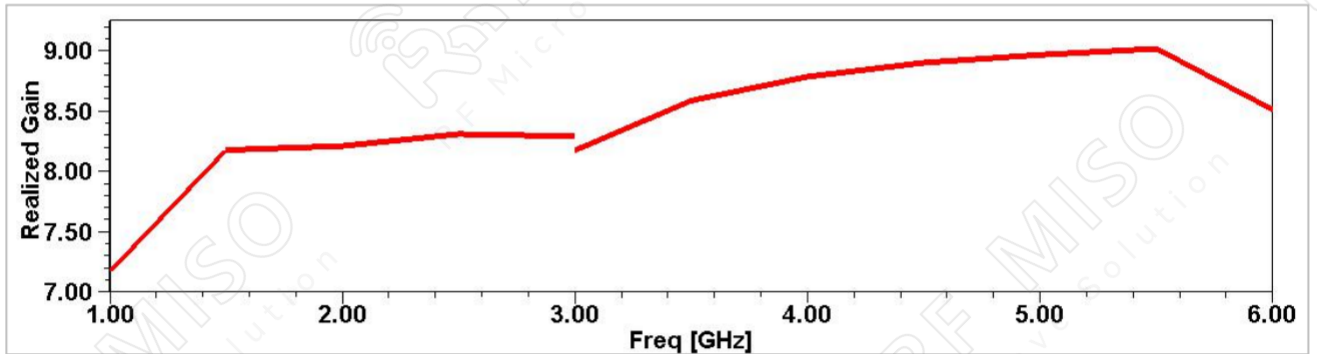
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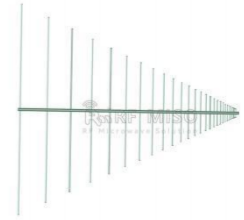
Simulation results:

VSWR



Gain



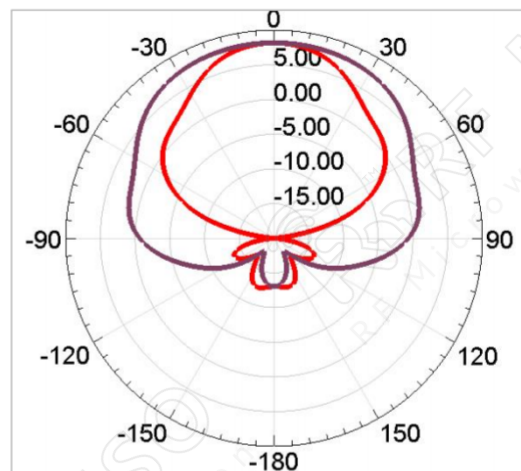
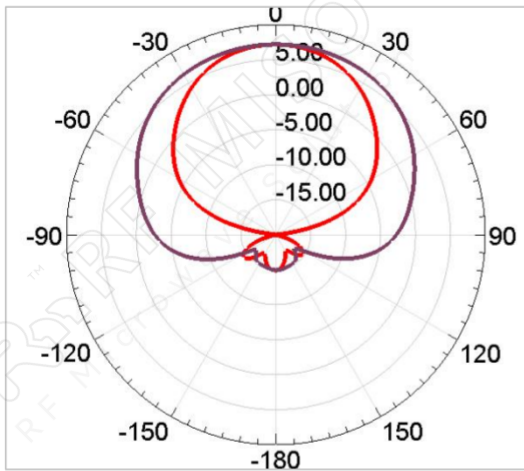


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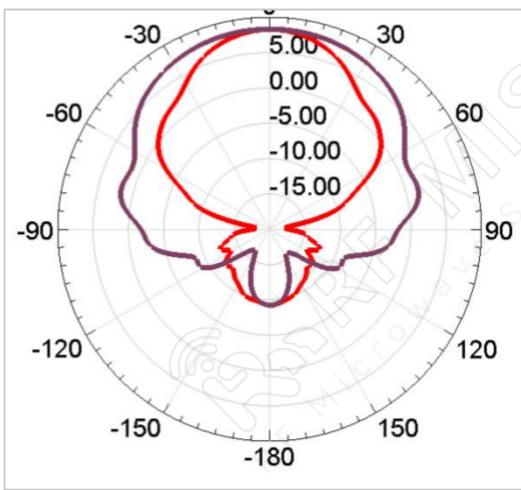
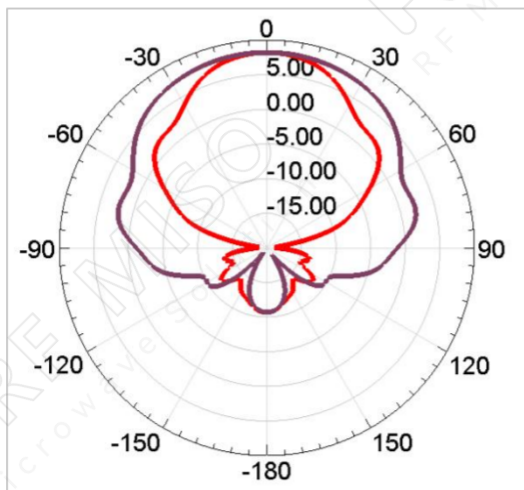
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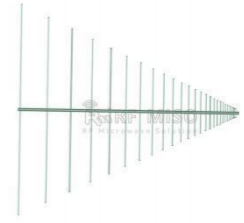
Gain Pattern



Frequency Range		1GHz	1.5GHz
3db beam width (deg)	E-Plane	59.68	50.09
	H-Plane	103.84	98.53



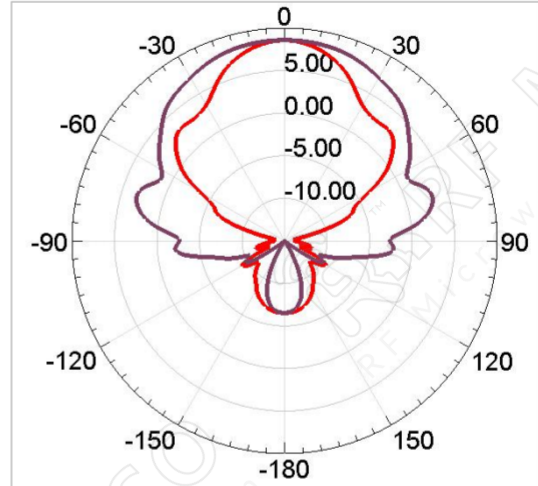
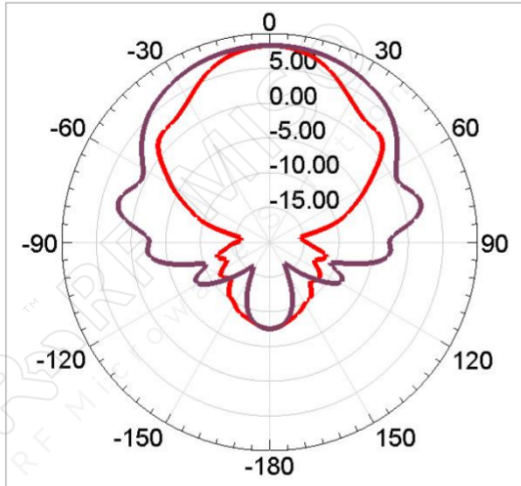
Frequency Range		2GHz	2.5GHz
3db beam width (deg)	E-Plane	50.49	48.94
	H-Plane	95.35	92.69



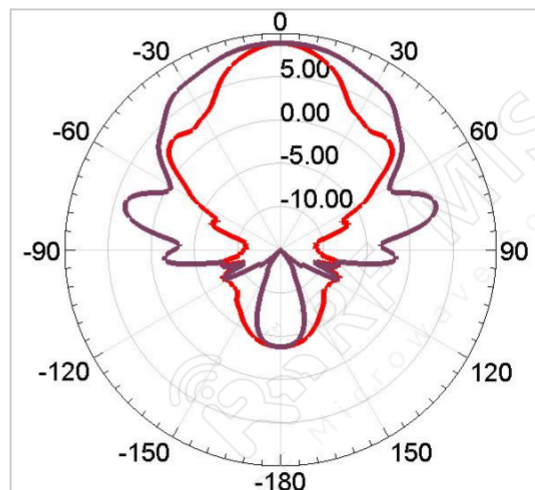
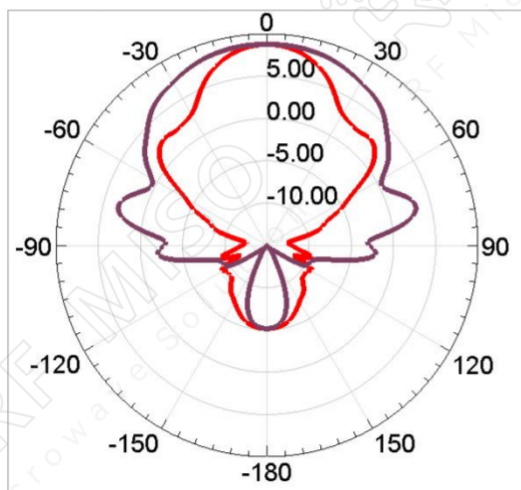
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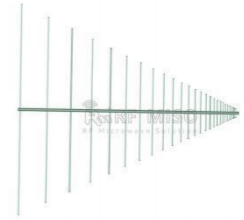
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Frequency Range		3GHz	3.5GHz
3db beam width (deg)	E-Plane	45.96	43.60
	H-Plane	87.37	86.72



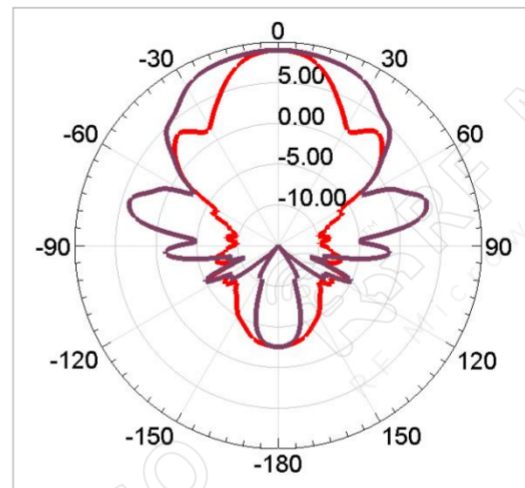
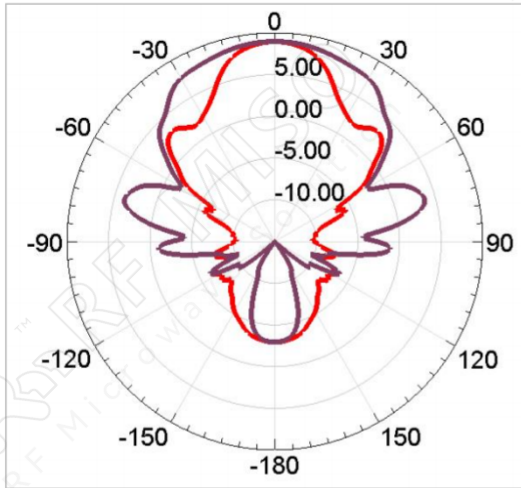
Frequency Range		4GHz	4.5GHz
3db beam width (deg)	E-Plane	41.49	37.95
	H-Plane	83.00	78.22



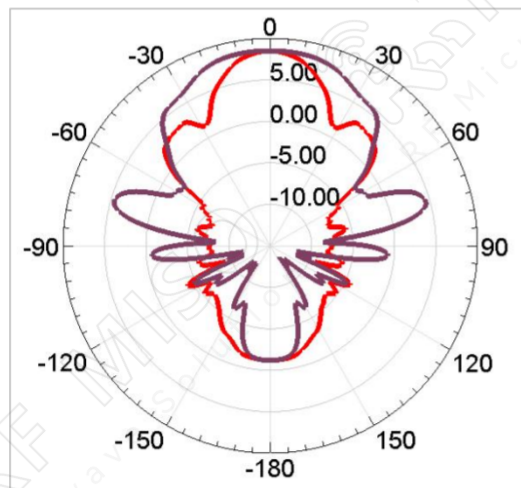
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Frequency Range		5GHz	5.5GHz
3db beam width (deg)	E-Plane	36.60	35.87
	H-Plane	75.53	71.82



Frequency Range		6G
3db beam width (deg)	E-Plane	34.92
	H-Plane	75.74