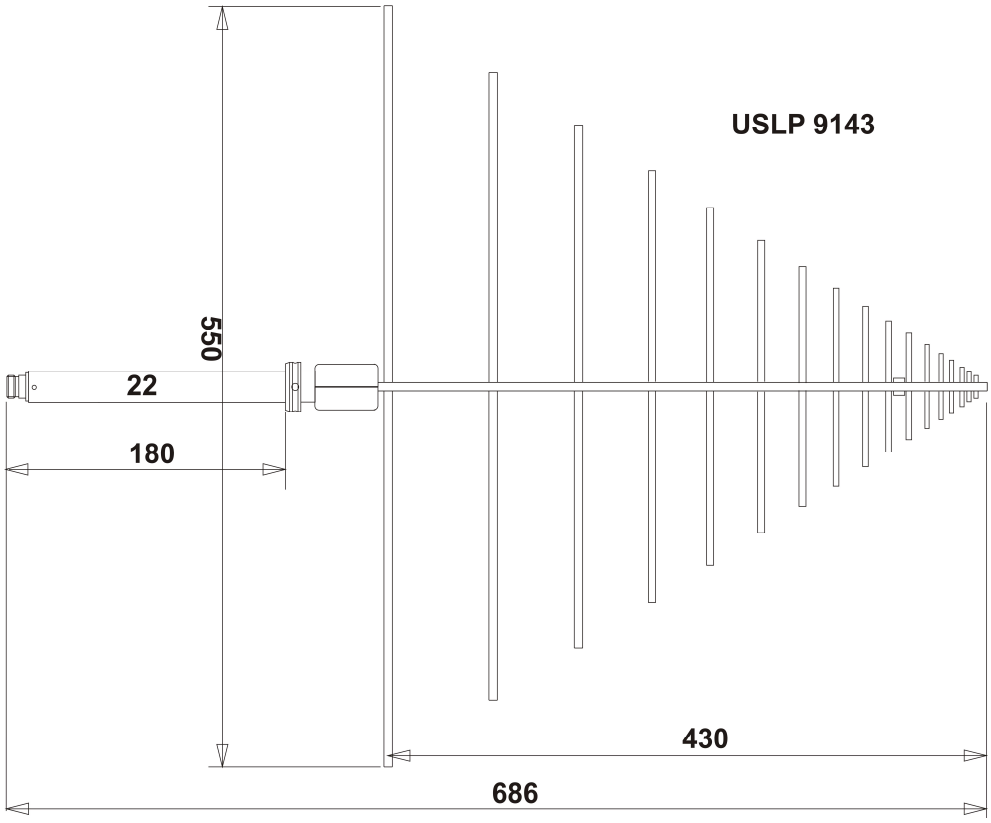
SCHWARZBECK MESS - ELEKTRONIK

An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

USLP 9143 UHF-SHF Log. - Per. Breitband Antenne
USLP 9143 UHF-SHF Log. - Per. Broadband Antenna



Technische Daten:	**USLP 9143**	***Specifications:***
Bauart: Linear polarisierte Logarithmisch Periodische Breitbandantenne in Aluminium-ausführung für Empfangs- und Sendeanwendungen		*Type:* *Linear polarized Logarithmic Periodic Broadband Antenna (Aluminium tubing) for Receive and Transmit Applications*
Frequenzbereich, nominell:	300 MHz...7 GHz	*Nominal Frequency Range:*
Nutzbarer Frequenzbereich:	250 MHz ... 8 GHz	*Usable Frequency Range:*
Isotropgewinn:	typ. 5.8 dBi + / - 1.3 dB	*Isotropic Gain:*
Antennenfaktor:	14 ... 43 dB/m	*Antenna Factor:*
Impedanz, nominell:	50 Ω	*Nominal Impedance:*
Stehwellenverhältnis SWR typisch:	<1.5	*Standing Wave Ratio SWR typical:*
Vor- Rückverhältnis:	>25 dB (>500 MHz)	*Front to Back Ratio:*
Polarisationsentkopplung:	>20 dB (250 MHz...2.5 GHz)	*Cross Polarisation:*
3 dB Öffnungswinkel typ.(E-Ebene):	30°-80°	*3 dB Beamwidth typ. (E-Plane):*
3 dB Öffnungswinkel typ.(H-Ebene):	60°-140°	*3 dB Beamwidth typ. (H-Plane):*
Max. Eingangsleistung:	200 W (<500 MHz) 80 W (5 GHz) 50 W (7 GHz)	*Max. Input Power:*
Anschlußart: N-Buchse		*N-Connector female*
Halterung: 22 mm Rohr, Rastring		*Mount: 22 mm Tube, Indexing Ring*
Breite x Länge x Dicke:	550 x 430 (686) x 50 mm	*Width x Length x Thickness:*
Gewicht:	1.1 kg	*Weight:*

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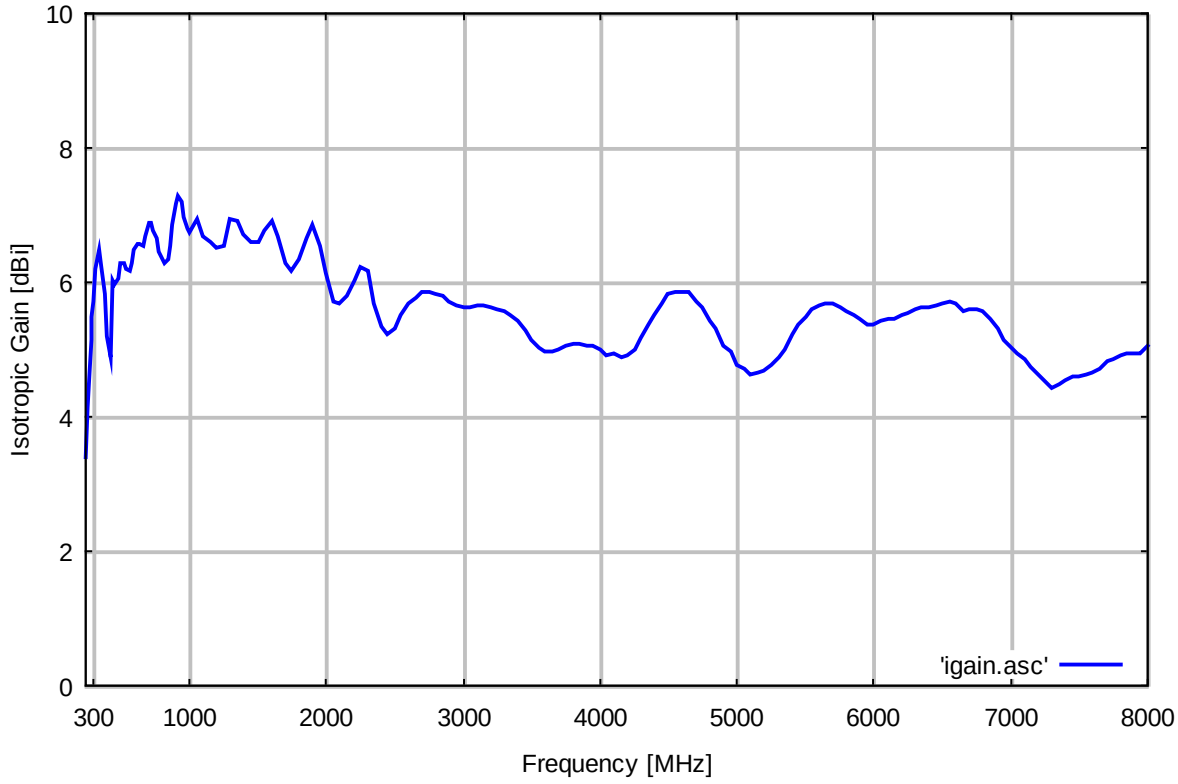
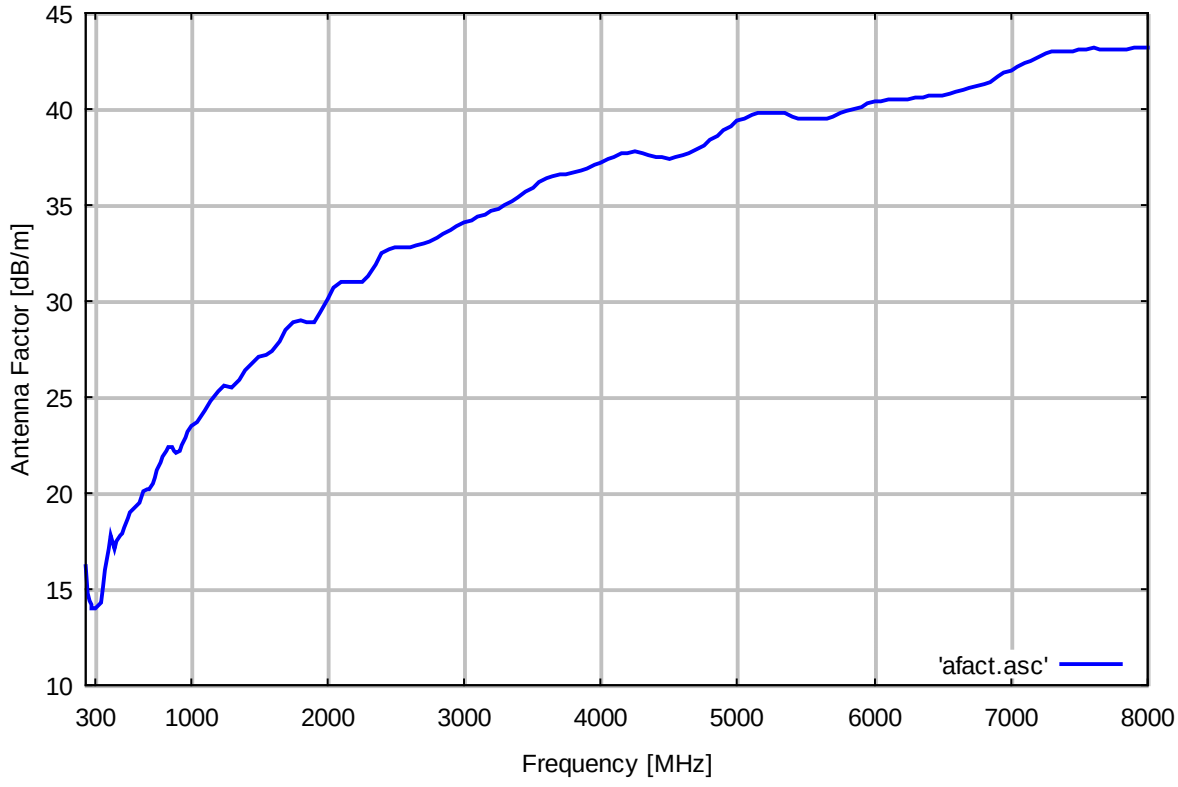
USLP 9143 Isotropgewinn



USLP 9143 Antennen-Wandlungsmass



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USLP 9143 UHF-SHF Log. - Per. Broadband Antenna

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop-gewinn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
240.00	2.80	1.25	25.74	1.63	-0.52	16.20
250.00	2.80	1.20	22.54	3.40	1.25	14.78
260.00	2.80	1.15	21.41	4.14	1.98	14.38
270.00	2.80	1.11	20.72	4.65	2.50	14.20
280.00	2.79	1.07	20.01	5.14	2.99	14.02
290.00	2.76	1.03	19.53	5.49	3.34	13.98
300.00	2.73	1.00	19.26	5.72	3.57	14.04
320.00	2.68	0.94	18.69	6.21	4.06	14.12
340.00	2.63	0.88	18.47	6.50	4.35	14.34
360.00	2.59	0.83	19.35	6.25	4.10	15.10
380.00	2.56	0.79	20.56	5.82	3.67	16.00
400.00	2.53	0.75	22.11	5.21	3.06	17.05
420.00	2.50	0.71	23.07	4.89	2.74	17.79
440.00	2.47	0.68	21.10	6.03	3.88	17.06
460.00	2.45	0.65	21.53	5.97	3.82	17.51
480.00	2.42	0.63	21.61	6.07	3.92	17.77
500.00	2.40	0.60	21.46	6.29	4.14	17.91
520.00	2.39	0.58	21.73	6.29	4.14	18.25
540.00	2.37	0.56	22.16	6.21	4.06	18.66
560.00	2.35	0.54	22.45	6.19	4.04	18.99
580.00	2.34	0.52	22.51	6.29	4.14	19.20
600.00	2.32	0.50	22.37	6.48	4.33	19.31
620.00	2.31	0.48	22.40	6.58	4.43	19.49
640.00	2.30	0.47	22.64	6.58	4.43	19.77
660.00	2.29	0.45	22.92	6.54	4.39	20.07
680.00	2.27	0.44	22.86	6.69	4.53	20.18
700.00	2.26	0.43	22.68	6.88	4.73	20.24
720.00	2.25	0.42	22.87	6.89	4.74	20.48
740.00	2.25	0.41	23.27	6.79	4.64	20.81
760.00	2.24	0.39	23.72	6.66	4.51	21.17
780.00	2.23	0.38	24.34	6.45	4.30	21.61
800.00	2.22	0.38	24.75	6.34	4.19	21.94
820.00	2.21	0.37	25.06	6.28	4.13	22.22
840.00	2.21	0.36	25.13	6.34	4.19	22.37
860.00	2.20	0.35	24.88	6.55	4.40	22.36
880.00	2.19	0.34	24.42	6.87	4.72	22.24
900.00	2.19	0.33	23.97	7.18	5.03	22.13
920.00	2.18	0.33	23.91	7.29	5.14	22.20
940.00	2.18	0.32	24.23	7.21	5.06	22.47
960.00	2.17	0.31	24.86	6.98	4.83	22.89
980.00	2.16	0.31	25.37	6.80	4.65	23.24
1000.00	2.16	0.30	25.64	6.75	4.60	23.47
1050.00	2.15	0.29	25.60	6.96	4.81	23.69
1100.00	2.14	0.27	26.47	6.70	4.55	24.35
1150.00	2.13	0.26	27.01	6.60	4.45	24.83
1200.00	2.12	0.25	27.51	6.52	4.37	25.28
1250.00	2.11	0.24	27.74	6.56	4.41	25.60
1300.00	2.10	0.23	27.28	6.95	4.80	25.55
1350.00	2.10	0.22	27.63	6.93	4.78	25.90
1400.00	2.09	0.21	28.32	6.73	4.57	26.42
1450.00	2.08	0.21	28.81	6.62	4.47	26.83
1500.00	2.08	0.20	29.12	6.60	4.45	27.14

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USLP 9143 UHF-SHF Log. - Per. Broadband Antenna

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop-gewinn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
1550.00	2.07	0.19	29.05	6.77	4.62	27.26
1600.00	2.07	0.19	29.02	6.91	4.76	27.39
1650.00	2.06	0.18	29.73	6.68	4.53	27.89
1700.00	2.06	0.18	30.74	6.29	4.14	28.54
1750.00	2.06	0.17	31.20	6.18	4.03	28.90
1800.00	2.05	0.17	31.12	6.34	4.18	28.99
1850.00	2.05	0.16	30.67	6.67	4.52	28.89
1900.00	2.04	0.16	30.50	6.86	4.71	28.93
1950.00	2.04	0.15	31.31	6.56	4.41	29.46
2000.00	2.04	0.15	32.34	6.15	4.00	30.09
2050.00	2.04	0.15	33.40	5.72	3.57	30.73
2100.00	2.03	0.14	33.69	5.68	3.53	30.99
2150.00	2.03	0.14	33.61	5.81	3.66	31.06
2200.00	2.03	0.14	33.34	6.04	3.89	31.03
2250.00	2.02	0.13	33.17	6.22	4.07	31.04
2300.00	2.02	0.13	33.46	6.17	4.02	31.29
2350.00	2.02	0.13	34.59	5.69	3.54	31.95
2400.00	2.02	0.13	35.46	5.34	3.19	32.48
2450.00	2.02	0.12	35.85	5.23	3.08	32.77
2500.00	2.01	0.12	35.84	5.32	3.17	32.86
2550.00	2.01	0.12	35.62	5.51	3.36	32.84
2600.00	2.01	0.12	35.45	5.68	3.52	32.84
2650.00	2.01	0.11	35.41	5.78	3.63	32.91
2700.00	2.01	0.11	35.42	5.85	3.70	33.00
2750.00	2.00	0.11	35.53	5.87	3.72	33.13
2800.00	2.00	0.11	35.75	5.84	3.69	33.33
2850.00	2.00	0.11	35.96	5.80	3.65	33.52
2900.00	2.00	0.10	36.30	5.71	3.55	33.76
2950.00	2.00	0.10	36.54	5.66	3.51	33.96
3000.00	2.00	0.10	36.73	5.63	3.48	34.13
3050.00	2.00	0.10	36.85	5.64	3.49	34.26
3100.00	1.99	0.10	36.94	5.66	3.51	34.39
3150.00	1.99	0.10	37.07	5.67	3.52	34.52
3200.00	1.99	0.09	37.25	5.64	3.49	34.68
3250.00	1.99	0.09	37.46	5.60	3.45	34.86
3300.00	1.99	0.09	37.65	5.57	3.42	35.02
3350.00	1.99	0.09	37.89	5.51	3.36	35.21
3400.00	1.99	0.09	38.16	5.44	3.29	35.41
3450.00	1.99	0.09	38.61	5.28	3.12	35.70
3500.00	1.99	0.09	38.96	5.16	3.01	35.94
3550.00	1.98	0.08	39.32	5.04	2.89	36.18
3600.00	1.98	0.08	39.58	4.97	2.82	36.38
3650.00	1.98	0.08	39.70	4.97	2.82	36.50
3700.00	1.98	0.08	39.74	5.00	2.85	36.58
3750.00	1.98	0.08	39.76	5.05	2.90	36.65
3800.00	1.98	0.08	39.81	5.08	2.93	36.73
3850.00	1.98	0.08	39.92	5.08	2.93	36.85
3900.00	1.98	0.08	40.05	5.07	2.92	36.97
3950.00	1.98	0.08	40.17	5.06	2.91	37.09
4000.00	1.98	0.08	40.38	5.01	2.86	37.25
4050.00	1.98	0.07	40.64	4.93	2.78	37.44
4100.00	1.98	0.07	40.73	4.94	2.79	37.54
4150.00	1.97	0.07	40.93	4.89	2.74	37.69

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USLP 9143 UHF-SHF Log. - Per. Broadband Antenna

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop-gewinn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
4200.00	1.97	0.07	40.98	4.92	2.77	37.77
4250.00	1.97	0.07	40.91	5.00	2.85	37.78
4300.00	1.97	0.07	40.62	5.19	3.04	37.70
4350.00	1.97	0.07	40.33	5.39	3.24	37.60
4400.00	1.97	0.07	40.15	5.53	3.38	37.56
4450.00	1.97	0.07	39.89	5.70	3.55	37.48
4500.00	1.97	0.07	39.76	5.82	3.67	37.47
4550.00	1.97	0.07	39.75	5.87	3.72	37.51
4600.00	1.97	0.07	39.86	5.86	3.71	37.61
4650.00	1.97	0.06	39.97	5.85	3.70	37.72
4700.00	1.97	0.06	40.35	5.71	3.56	37.96
4750.00	1.97	0.06	40.58	5.64	3.49	38.12
4800.00	1.97	0.06	41.11	5.42	3.27	38.43
4850.00	1.97	0.06	41.40	5.31	3.16	38.62
4900.00	1.97	0.06	41.97	5.07	2.92	38.95
4950.00	1.97	0.06	42.24	4.98	2.83	39.13
5000.00	1.96	0.06	42.72	4.78	2.63	39.42
5050.00	1.96	0.06	42.92	4.73	2.58	39.56
5100.00	1.96	0.06	43.19	4.63	2.48	39.74
5150.00	1.96	0.06	43.24	4.65	2.50	39.81
5200.00	1.96	0.06	43.24	4.69	2.54	39.85
5250.00	1.96	0.06	43.13	4.78	2.63	39.84
5300.00	1.96	0.06	42.99	4.90	2.75	39.81
5350.00	1.96	0.06	42.85	5.00	2.85	39.78
5400.00	1.96	0.06	42.46	5.24	3.09	39.63
5450.00	1.96	0.06	42.25	5.38	3.23	39.57
5500.00	1.96	0.05	42.12	5.49	3.34	39.54
5550.00	1.96	0.05	41.96	5.61	3.46	39.50
5600.00	1.96	0.05	41.93	5.66	3.51	39.52
5650.00	1.96	0.05	41.93	5.70	3.55	39.56
5700.00	1.96	0.05	41.99	5.70	3.55	39.63
5750.00	1.96	0.05	42.23	5.62	3.47	39.79
5800.00	1.96	0.05	42.41	5.57	3.42	39.92
5850.00	1.96	0.05	42.58	5.52	3.37	40.04
5900.00	1.96	0.05	42.76	5.47	3.32	40.17
5950.00	1.96	0.05	43.01	5.38	3.23	40.33
6000.00	1.96	0.05	43.06	5.39	3.24	40.40
6050.00	1.96	0.05	43.06	5.42	3.27	40.43
6100.00	1.96	0.05	43.09	5.45	3.29	40.48
6150.00	1.96	0.05	43.10	5.47	3.32	40.52
6200.00	1.96	0.05	43.09	5.51	3.36	40.56
6250.00	1.96	0.05	43.07	5.55	3.40	40.58
6300.00	1.95	0.05	43.06	5.60	3.45	40.61
6350.00	1.95	0.05	43.08	5.62	3.47	40.66
6400.00	1.95	0.05	43.12	5.63	3.48	40.71
6450.00	1.95	0.05	43.11	5.67	3.52	40.74
6500.00	1.95	0.05	43.11	5.70	3.55	40.77
6550.00	1.95	0.05	43.17	5.71	3.56	40.84
6600.00	1.95	0.05	43.27	5.69	3.54	40.92
6650.00	1.95	0.05	43.53	5.59	3.44	41.08
6700.00	1.95	0.04	43.55	5.61	3.46	41.13
6750.00	1.95	0.04	43.61	5.61	3.46	41.19
6800.00	1.95	0.04	43.76	5.57	3.42	41.30

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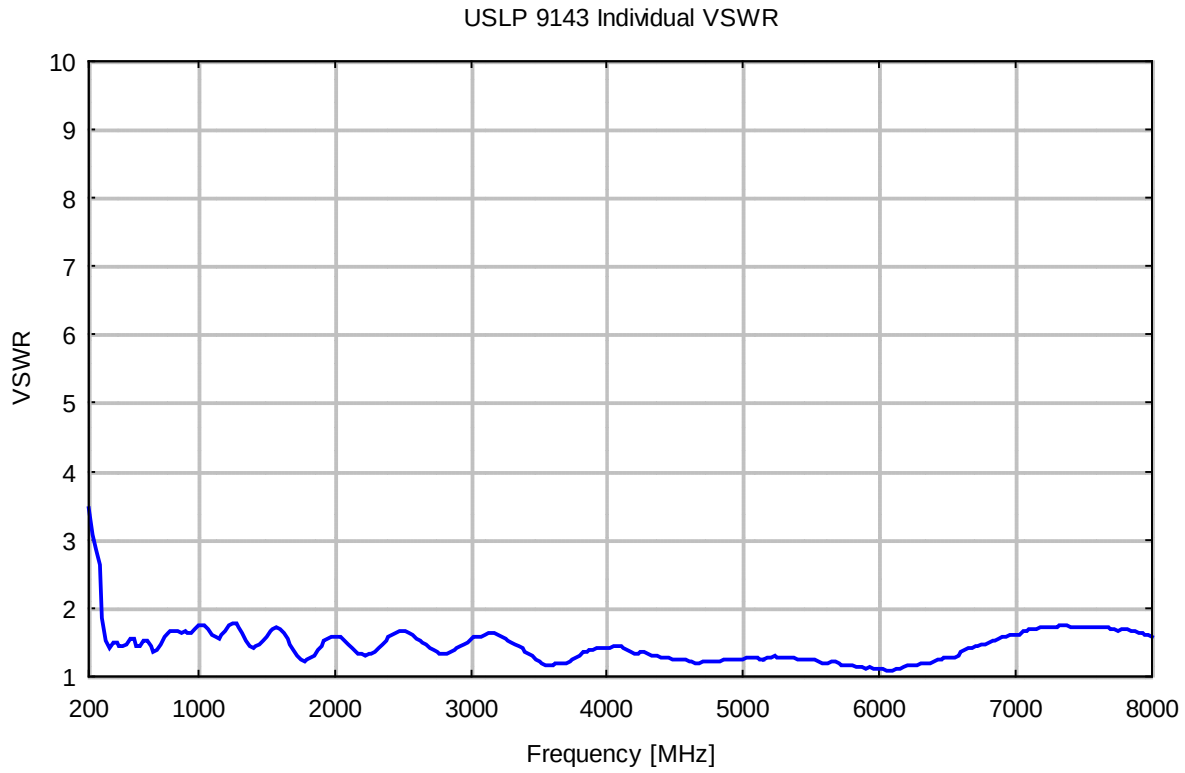
USLP 9143 UHF-SHF Log. - Per. Broadband Antenna

Frequency Frequenz	Distance Abstand	Wavelength Wellen-länge	Attenuation Dämpfung	Gain(Isotr.) Isotrop-gewinn	Gain(Dipole) Gewinn über Dipol	Ant.-Factor Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
6850.00	1.95	0.04	44.02	5.47	3.32	41.46
6900.00	1.95	0.04	44.42	5.31	3.15	41.69
6950.00	1.95	0.04	44.79	5.15	3.00	41.91
7000.00	1.95	0.04	45.06	5.04	2.89	42.08
7050.00	1.95	0.04	45.30	4.96	2.81	42.23
7100.00	1.95	0.04	45.55	4.86	2.71	42.39
7150.00	1.95	0.04	45.82	4.76	2.60	42.55
7200.00	1.95	0.04	46.12	4.63	2.48	42.73
7250.00	1.95	0.04	46.43	4.51	2.36	42.92
7300.00	1.95	0.04	46.63	4.44	2.29	43.05
7350.00	1.95	0.04	46.61	4.48	2.32	43.07
7400.00	1.95	0.04	46.54	4.54	2.39	43.06
7450.00	1.95	0.04	46.49	4.59	2.44	43.07
7500.00	1.95	0.04	46.53	4.60	2.45	43.12
7550.00	1.95	0.04	46.53	4.63	2.48	43.15
7600.00	1.95	0.04	46.55	4.65	2.50	43.19
7650.00	1.95	0.04	46.47	4.72	2.57	43.17
7700.00	1.95	0.04	46.28	4.84	2.69	43.11
7750.00	1.95	0.04	46.28	4.87	2.72	43.14
7800.00	1.95	0.04	46.25	4.91	2.76	43.15
7850.00	1.95	0.04	46.25	4.94	2.79	43.18
7900.00	1.95	0.04	46.27	4.95	2.80	43.22
7950.00	1.95	0.04	46.32	4.96	2.81	43.27
8000.00	1.95	0.04	46.17	5.06	2.91	43.22



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