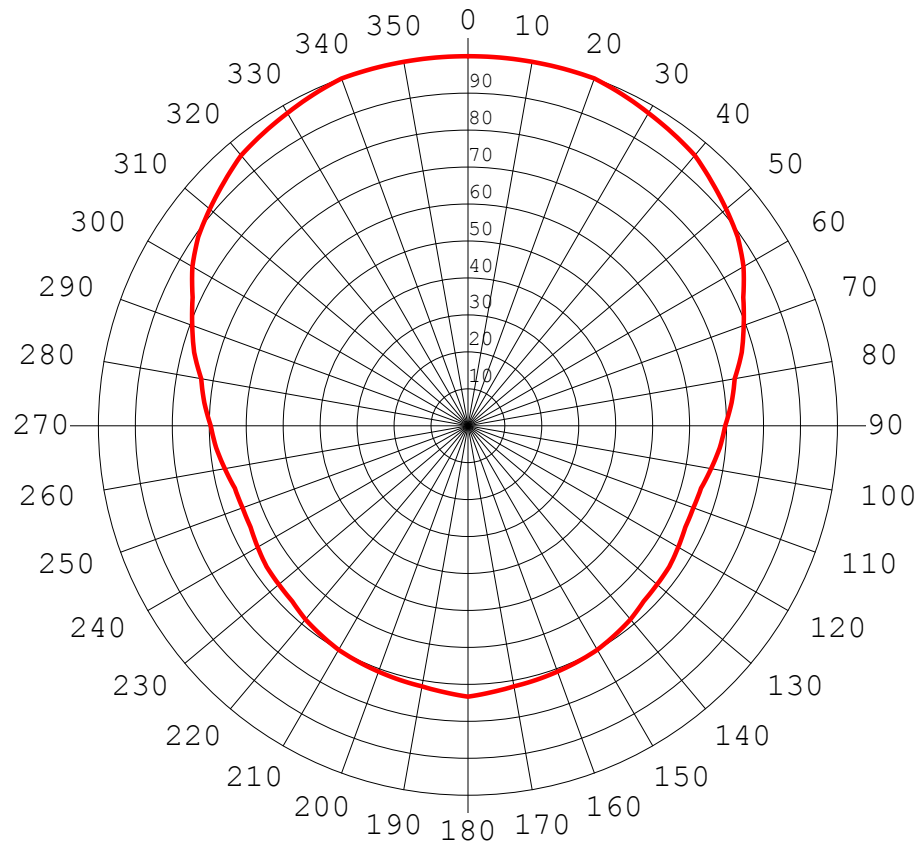


Scala SL-8 27 Paraslot Antenna

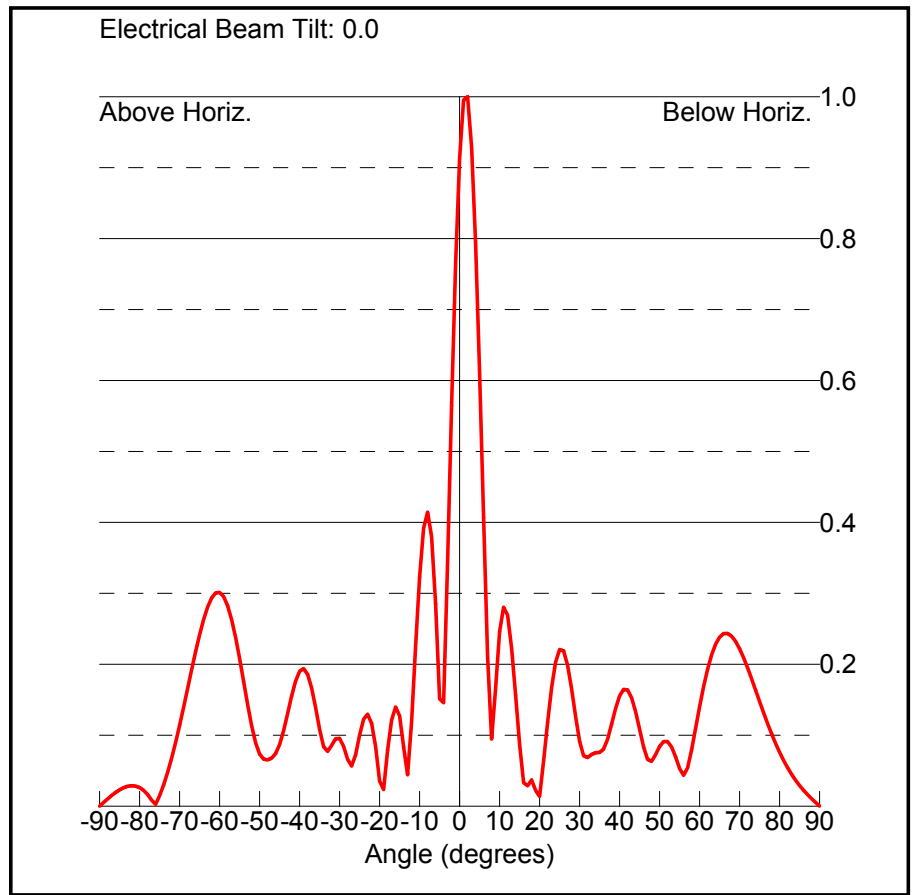


Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	1.000	6.70	4.7	0.00	180	0.733	4.00	2.5	-2.70
10	1.000	6.70	4.7	0.00	190	0.716	3.80	2.4	-2.90
20	1.000	6.70	4.7	0.00	200	0.708	3.70	2.3	-3.00
30	0.977	6.50	4.5	-0.20	210	0.700	3.60	2.3	-3.10
40	0.955	6.30	4.3	-0.40	220	0.684	3.40	2.2	-3.30
50	0.912	5.90	3.9	-0.80	230	0.668	3.20	2.1	-3.50
60	0.861	5.40	3.5	-1.30	240	0.657	3.05	2.0	-3.65
70	0.794	4.70	3.0	-2.00	250	0.649	2.95	2.0	-3.76
80	0.733	4.00	2.5	-2.70	260	0.668	3.20	2.1	-3.50
90	0.696	3.55	2.3	-3.15	270	0.696	3.55	2.3	-3.15
100	0.668	3.20	2.1	-3.50	280	0.733	4.00	2.5	-2.70
110	0.649	2.95	2.0	-3.76	290	0.794	4.70	3.0	-2.00
120	0.657	3.05	2.0	-3.65	300	0.861	5.40	3.5	-1.30
130	0.668	3.20	2.1	-3.50	310	0.912	5.90	3.9	-0.80
140	0.684	3.40	2.2	-3.30	320	0.955	6.30	4.3	-0.40
150	0.700	3.60	2.3	-3.10	330	0.977	6.50	4.5	-0.20
160	0.708	3.70	2.3	-3.00	340	1.000	6.70	4.7	0.00
170	0.716	3.80	2.4	-2.90	350	1.000	6.70	4.7	0.00

Rotation Angle = 0

Vertical Elevation Pattern

Angle (deg)	Relative Field
-90.0	0.000
-89.0	0.005
-88.0	0.01
-87.0	0.015
-86.0	0.019
-85.0	0.023
-84.0	0.026
-83.0	0.028
-82.0	0.029
-81.0	0.028
-80.0	0.026
-79.0	0.022
-78.0	0.017
-77.0	0.009
-76.0	0.003
-75.0	0.015
-74.0	0.03
-73.0	0.048
-72.0	0.068
-71.0	0.09
-70.0	0.114
-69.0	0.139
-68.0	0.166
-67.0	0.192
-66.0	0.218
-65.0	0.242
-64.0	0.263
-63.0	0.281
-62.0	0.293
-61.0	0.301
-60.0	0.301
-59.0	0.296
-58.0	0.282
-57.0	0.263
-56.0	0.238
-55.0	0.208
-54.0	0.176
-53.0	0.143
-52.0	0.114
-51.0	0.089
-50.0	0.074
-49.0	0.066
-48.0	0.065
-47.0	0.068
-46.0	0.074
-45.0	0.087
-44.0	0.106
-43.0	0.13



-42.0	0.155
-41.0	0.176
-40.0	0.19
-39.0	0.194
-38.0	0.186
-37.0	0.167
-36.0	0.139
-35.0	0.108
-34.0	0.084
-33.0	0.077
-32.0	0.086
-31.0	0.095
-30.0	0.095
-29.0	0.084
-28.0	0.066
-27.0	0.057
-26.0	0.072
-25.0	0.1
-24.0	0.123
-23.0	0.13
-22.0	0.117
-21.0	0.084

-20.0	0.035	32.0	0.069
-19.0	0.023	33.0	0.073
-18.0	0.079	34.0	0.075
-17.0	0.121	35.0	0.076
-16.0	0.14	36.0	0.08
-15.0	0.127	37.0	0.094
-14.0	0.084	38.0	0.116
-13.0	0.044	39.0	0.138
-12.0	0.119	40.0	0.155
-11.0	0.225	41.0	0.165
-10.0	0.323	42.0	0.164
-9.0	0.392	43.0	0.153
-8.0	0.415	44.0	0.133
-7.0	0.38	45.0	0.108
-6.0	0.285	46.0	0.083
-5.0	0.151	47.0	0.066
-4.0	0.146	48.0	0.063
-3.0	0.344	49.0	0.073
-2.0	0.565	50.0	0.084
-1.0	0.764	51.0	0.091
0.0	0.913	52.0	0.091
1.0	0.995	53.0	0.083
2.0	1.0	54.0	0.07
3.0	0.929	55.0	0.053
4.0	0.793	56.0	0.044
5.0	0.611	57.0	0.054
6.0	0.407	58.0	0.079
7.0	0.211	59.0	0.11
8.0	0.095	60.0	0.14
9.0	0.166	61.0	0.169
10.0	0.246	62.0	0.193
11.0	0.281	63.0	0.213
12.0	0.269	64.0	0.228
13.0	0.223	65.0	0.238
14.0	0.157	66.0	0.243
15.0	0.087	67.0	0.244
16.0	0.033	68.0	0.24
17.0	0.029	69.0	0.232
18.0	0.037	70.0	0.222
19.0	0.022	71.0	0.209
20.0	0.014	72.0	0.195
21.0	0.064	73.0	0.18
22.0	0.118	74.0	0.164
23.0	0.167	75.0	0.147
24.0	0.203	76.0	0.132
25.0	0.221	77.0	0.116
26.0	0.219	78.0	0.102
27.0	0.199	79.0	0.088
28.0	0.165	80.0	0.076
29.0	0.127	81.0	0.065
30.0	0.091	82.0	0.054
31.0	0.071	83.0	0.045

SL-8

UHF-TV Paraslot® Antenna

470—806 MHz (Channels 14—69*) Horizontally polarized

KATHREIN

The KUSA SL-8 Paraslot UHF-TV antenna is a high performance slot array offering excellent performance in UHF-TV transmit applications requiring omnidirectional coverage. The SL-8 is available in single and multichannel models with a 1,000 watt power rating and optional null-fill.

KUSA's patented symmetrical parallel feed system is completely housed within the center of the antenna, and resists changes in radiation pattern caused by ice or snow buildup on the periphery of the antenna.

The standard SL-8 is a single-channel slot array with a power input rating of 1000 watts, VSWR of 1.1:1 maximum, 1.75 degrees of electrical beamtilt, and $\frac{7}{8}$ " EIA flange termination. Options include null-fill and additional beamtilt.

The SL-8-2 is designed for wideband performance over two alternate nonadjacent 6 MHz UHF-TV channels (e.g. Channels 60 and 62) permitting two transmitters to be diplexed into a single antenna. The SL-8-2 provides VSWR of 1.15:1 or better across the two specified channels.

The SL-8-3 Paraslot provides coverage of three 6 MHz alternate nonadjacent UHF-TV channels (e.g. Channels 60, 62, and 64). This arrangement allows three UHF-TV transmitters to be multiplexed into a single antenna. VSWR is held to 1.25:1 or better over the three specified channels.

*Available for 6, 7, or 8 MHz channels in accordance with various international channel allocation plans.



10479h subject to alteration



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All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com

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Specifications: One UHF-TV Channel (up to 8 MHz bandwidth)				
Frequency range (MHz)	470 to 548	548 to 674	674 to 788	788 to 806
Maximum gain (dBd)	11.4	11.4	11.4	11.4
Power gain	13.8	13.8	13.8	13.8
VSWR	< 1.1:1	< 1.1:1	< 1.1:1	< 1.1:1

Specifications: One UHF-TV Channel with Null Fill (up to 8 MHz bandwidth)				
Frequency range (MHz)	470 to 554	554 to 686	686 to 800	800 to 806
Maximum gain (dBd)	10.5	10.5	10.5	10.5
Power gain	11.22	11.22	11.22	11.22
VSWR	< 1.1:1	< 1.1:1	< 1.1:1	< 1.1:1

Specifications: Two UHF-TV Channels (up to 24 MHz bandwidth)				
Frequency range (MHz)	470 to 554	542 to 680	668 to 794	782 to 806
Maximum gain (dBd)	10.5	10.5	10.5	10.5
Power gain	11.22	11.22	11.22	11.22
VSWR				
	18 MHz band	< 1.15:1	< 1.15:1	< 1.15:1
	24 MHz band	< 1.2:1	< 1.2:1	< 1.2:1

Specifications: Three UHF-TV Channels (up to 40 MHz bandwidth)			
Frequency range (MHz)	470 to 566	542 to 692	668 to 806
Maximum gain (dBd)	10.5	10.5	10.5
Power gain	11.22	11.22	11.22
VSWR			
	30 MHz band	< 1.25:1	< 1.25:1
	40 MHz band	< 1.3:1	< 1.3:1

Mechanical Specifications				
Weight	95 lb (44 kg)	75 lb (34 kg)	65 lb (30 kg)	35 lb (16 kg)
Height	288 inches (7315 mm)	240 inches (6096 mm)	216 inches (5486 mm)	180 inches (4572 mm)
Diameter	4 inches (102 mm)	3.5 inches (89 mm)	2.875 inches (73 mm)	2.375 inches (60 mm)
Wind load at 100 mph (161 kph)				
	Side	190 lbf (845 N)	137 lbf (609 N)	101 lbf (449 N)
Wind survival rating	80 mph (129 kph)	90 mph (145 kph)	90 mph (145 kph)	80 mph (129 kph)
Shipping dimensions	302 x 9 x 7 inches (7671 x 229 x 178 mm)	280 x 9 x 7 inches (7112 x 229 x 178 mm)	254 x 9 x 7 inches (6452 x 229 x 178 mm)	193 x 7 x 7 inches (4902 x 178 x 178 mm)
Shipping weight	210 lb (96 kg)	170 lb (78 kg)	130 lb (59 kg)	70 lb (32 kg)

*Available for 6, 7, or 8 MHz channels in accordance with various international channel allocation plans.

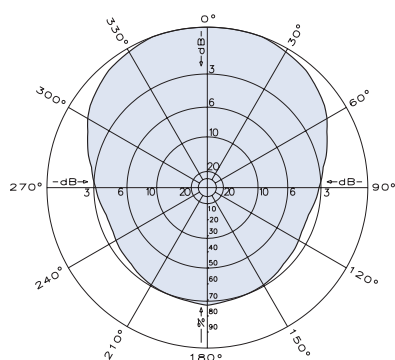
SL-8

UHF-TV Paraslot® Antenna

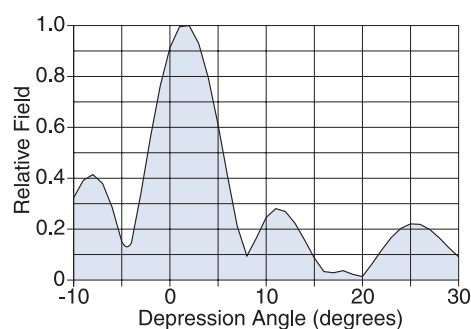
470—806 MHz (Channels 14—69*) Horizontally polarized

KATHREIN

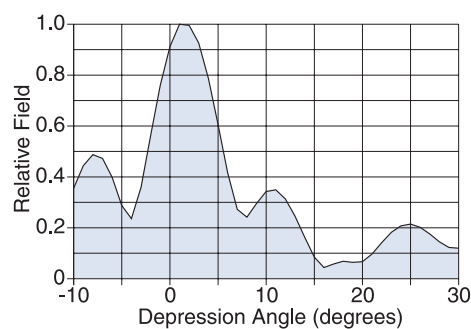
General Specifications	
Frequency	470—806 MHz*
Impedance	50 ohms
Polarization	Horizontal
Maximum input power	1000 watts
Electrical beamtilt	1.75 degrees standard (special beamtilt options are available)
Null fill	Optional
Connector	7/8" EIA flange
Mounting	Mounting kits are available for attachment to a flat vertical surface or to masts with 2.375 to 4.5 inch (60 to 114 mm OD.)



Typical azimuth pattern
(E-plane)



Standard elevation pattern
(H-plane)



Typical elevation pattern
(H-plane) with null fill

10479h subject to alteration

All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com

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SL-8

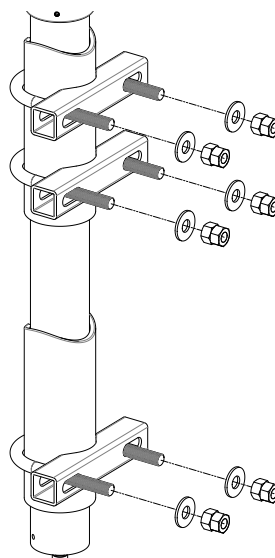
UHF-TV Paraslot® Antenna

470—806 MHz (Channels 14—69*) Horizontally polarized

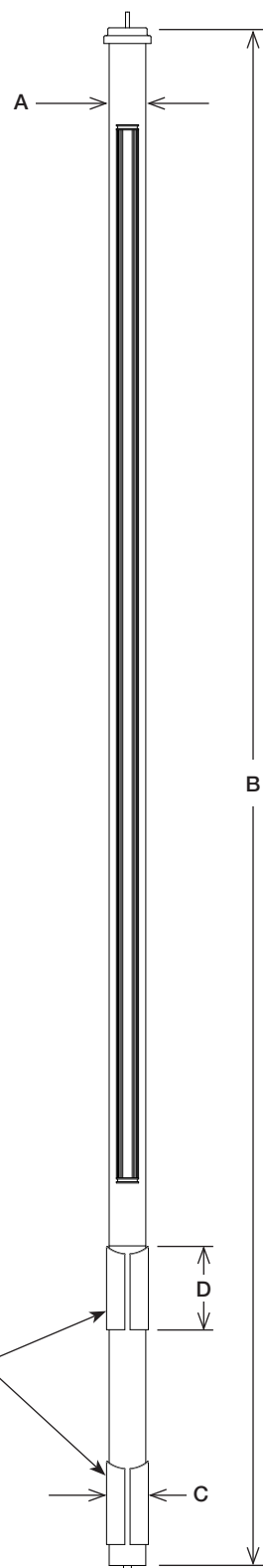
KATHREIN

Mounting options

Model	Description
788—806 MHz	
MKPS-13	Mounting kit for mounting to a flat plate
MKPP-23*	Mounting kit for 2.375 to 3.5 inch (60 to 89 mm) OD mast.
MKPP-26*	Mounting kit for 2.375 to 5 inch (60 to 127 mm) OD mast.
MKGK-1	Guy kit
MKSK-1	Spreader kit
674—788 MHz	
MKPS-14	Mounting kit for mounting to a flat plate
MKPP-23*	Mounting kit for 2.375 to 3.5 inch (60 to 89 mm) OD mast.
MKPP-26*	Mounting kit for 2.375 to 5 inch (60 to 127 mm) OD mast.
MKGK-2	Guy kit
MKSK-2	Spreader kit
548—674 MHz	
MKPS-15	Mounting kit for mounting to a flat plate
MKPP-26*	Mounting kit for 2.375 to 5 inch (60 to 127 mm) OD mast.
MKGK-3	Guy kit
MKSK-3	Spreader kit
470—548 MHz	
MKPS-16	Mounting kit for mounting to a flat plate
MKPP-26*	Mounting kit for 2.375 to 5 inch (60 to 127 mm) OD mast.
MKGK-4	Guy kit
MKSK-4	Spreader kit



**MKPS-series
Mounting Kits**



Mounting sleeves

A	B	C	D
2.375 inches (60 mm)	180 inches (4572 mm)	2.875 inches (73 mm)	7.9 inches (201 mm)
2.875 inches (73 mm)	216 inches (5486 mm)	3.5 inches (89 mm)	7.9 inches (201 mm)
3.5 inches (89 mm)	240 inches (6096 mm)	4 inches (102 mm)	7.9 inches (201 mm)
4 inches (102 mm)	288 inches (7315 mm)	4.5 inches (114 mm)	7.9 inches (201 mm)

Antenna Guying

In order to provide maximum reliability and service life, KUSA recommends that the SL-8 antenna be guyed in cases where it is top mounted, free standing or subject to high winds.

An optional Guy Kit is available.

In cases where the antenna is side-mounted on the support structure, a brace can be used from the mounting structure to provide stability and strength to the installation.