

Compact Sector Antennas



SCR225-9 antenna mounted on regular fixed bracket.

Peak Antennas' Compact Sector antennas comprise 2, 4 or 8 tier arrays of dipole/corner reflector radiating elements housed in a rugged fiberglass tube. This configuration gives a wide 110 degree azimuth beamwidth and exceptionally constant performance over a wide operating bandwidth in a very compact cross-section.

These antennas are suitable for sector coverage applications, for example the receive end of a mobile transmission. Their wide azimuth beam makes them a good choice for **diversity** systems.

The antennas are housed in robust fibreglass tubes, and feature a dual barrier water-seal at the top, comprising an aluminum alloy overcap RTV'ed over a delrin top cap that is glued into the tube. There is a breathe hole in the base. The forward direction is indicated by a flat (and label) on the anodized aluminium base, and the antennas are supplied with a stainless steel bracket and U bolts for mounting (either fixed or slotted option to allow slight downtilt).

Compact Sector antennas are also available in **dual-band** configurations, where the higher frequency array is set above the lower frequency array, with two N female connectors at the base (See Dual-Band data sheet).

All the antennas feature:

Gain:	9, 12 or 14.5 dBi
Frequency:	See schedule over
Elevation B/W:	35, 18 or 9 degrees
Azimuth B/W:	110 degrees
Front to back:	17dB
Polarization:	Vertical
Return loss:	14dB typical (1.5 to 1 VSWR)
Diameter, length dims.:	See schedule over
Color:	White or Black (specify)
Connector:	N female or TNC female
Mount:	Stainless steel bracket and U bolts (supplied)

PEAK ANTENNAS

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Four SCR225-12 compact sector antennas in a diversity receive set-up inside stadium.



SCR130-9
Note: external reflector (for frequencies below 1.5 GHz)



SCR640-12



SCR225-9 on slotted tilt bracket.
Note: Antenna sits sideways on bracket so front face is in direction of tilt.

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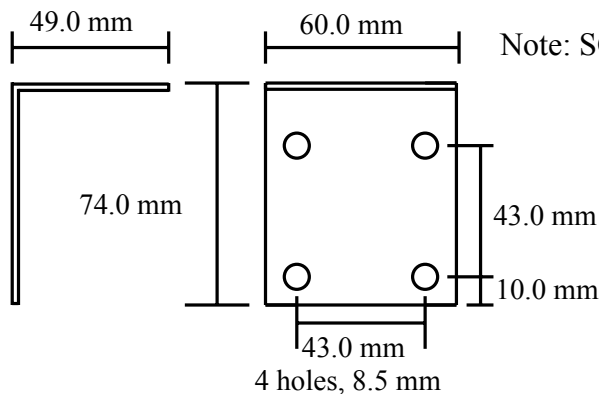
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Designation	Frequency	Gain	Elevation B/W	Azimuth B/W	Diameter	Length
SCR110-12*	1.0-1.2 GHz	12dBi	18 degrees	110 degrees	67mm/2.6"	850mm/33.5"
SCR130-9*	1.15-1.40 GHz	9dBi	35 degrees	110 degrees	67mm/2.6"	475mm/18.7"
SCR130-12*	1.15-1.40 GHz	12dBi	18 degrees	110 degrees	67mm/2.6"	850mm/33.5"
SCR145-12*	1.40-1.55 GHz	12dBi	18 degrees	110 degrees	54mm/2.1"	720mm/28.3"
SCR155-12*	1.5-1.6 GHz	12dBi	18 degrees	110 degrees	67mm/2.6"	673mm/26.5"
SCR155-14.5*	1.5-1.6 GHz	14.5dBi	9 degrees	110 degrees	67mm/2.6"	1245mm/49.0"
SCR170-12*	1.60-1.80 GHz	12dBi	18 degrees	110 degrees	67mm/2.6"	625mm/24.6"
SCR194-9*	1.71-2.17 GHz	9dBi	35 degrees	110 degrees	67mm/2.6"	318mm/12.5"
SCR194-12*	1.71-2.17 GHz	12dBi	18 degrees	110 degrees	67mm/2.6"	550mm/21.6"
SCR225-9	1.98-2.50 GHz	9dBi	35 degrees	110 degrees	54mm/2.1"	279mm/11.0"
SCR225-12	1.98-2.50 GHz	12dBi	18 degrees	110 degrees	54mm/2.1"	479mm/18.9"
SCR225-14.5*	1.98-2.50 GHz	14.5dBi	9 degrees	110 degrees	54mm/2.1"	879mm/34.6"
SCR250-9	2.30-2.70 GHz	9dBi	35 degrees	110 degrees	54mm/2.1"	267mm/10.5"
SCR250-12	2.30-2.70 GHz	12dBi	18 degrees	110 degrees	54mm/2.1"	447mm/17.6"
SCR250-14.5*	2.30-2.70 GHz	14.5dBi	9 degrees	110 degrees	54mm/2.1"	807mm/31.8"
SCR330-9	3.1-3.5 GHz	9dBi	35 degrees	110 degrees	42mm/1.6"	177mm/7.0"
SCR330-12	3.1-3.5 GHz	12dBi	18 degrees	110 degrees	42mm/1.6"	315mm/12.4"
SCR330-14.5	3.1-3.5 GHz	14.5dBi	9 degrees	110 degrees	42mm/1.6"	587mm/23.1"
SCR340-12	3.2-3.6 GHz	12dBi	18 degrees	110 degrees	42mm/1.6"	315mm/12.4"
SCR350-9	3.30-3.70 GHz	9dBi	35 degrees	110 degrees	42mm/1.6"	218mm/8.6"
SCR350-12	3.30-3.70 GHz	12dBi	18 degrees	110 degrees	42mm/1.6"	347mm/13.7"
SCR350-14.5	3.30-3.70 GHz	14.5dBi	9 degrees	110 degrees	42mm/1.6"	604mm/23.8"
SCR470-12	4.4-5.0 GHz	12dBi	18 degrees	110 degrees	27mm/1.1"	270mm/10.6"
SCR470-14.5	4.4-5.0 GHz	14.5dBi	9 degrees	110 degrees	27mm/1.1"	461mm/18.1"
SCR575-12	5.6-5.9 GHz	12dBi	18 degrees	110 degrees	27mm/1.1"	254mm/10.0"
SCR640-12	5.7-7.1 GHz	12dBi	18 degrees	110 degrees	27mm/1.1"	254mm/10.0"
SCR640-14.5	5.7-7.1 GHz	14.5dBi	9 degrees	110 degrees	27mm/1.1"	388mm/15.3"
SCR675-12	6.40-7.20 GHz	12dBi	18 degrees	110 degrees	27mm/1.1"	254mm/10.0"
SCR700-12	6.8-7.2 GHz	12dBi	18 degrees	110 degrees	27mm/1.1"	254mm/10.0"
SCR740-12	7.1-7.7 GHz	12dBi	18 degrees	110 degrees	24mm/0.94"	204mm/8.0"
SCR750-14.5	7.2-7.8 GHz	14.5dBi	9 degrees	110 degrees	24mm/0.94"	325mm/12.8"
SCR1050-14	10.3-10.7 GHz	14dBi	9 degrees	110 degrees	27mm/1.1"	262mm/10.3"
SCR1300-14	12.75-13.25 GHz	14dBi	9 degrees	110 degrees	27mm/1.1"	236mm/9.3"

Please ask us if your application requires a frequency band not listed here.



Note: SCR110, SCR130 and SCR145 have external reflectors.

Small Standard Bracket

(U bolts fit pole diameters up to 35 mm, 1.38")

(Note that antennas marked with * are supplied with a Medium Standard Bracket, see High Gain Collinear Omni datat sheet for dimensions.)

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Circularly Polarized Sector Antennas

Peak Antennas also offers sector antennas with **circular polarization**, based on the same crossed-dipole over ground element design as our XDU antennas. In the sector antennas either 2, 4 or 8 tiers of elements are arranged in a vertical array, to give gains of 10, 13 and 15.5 dBi. The arrays are housed in robust fibreglass tubes, and supplied with stainless steel brackets and U bolts.

Specifications:

Gain:	10, 13 or 15.5 dBi
Frequency:	See schedule below
Elevation B/W:	35, 18 or 9 degrees
Azimuth B/W:	90 degrees
Front to back:	17dB
Polarization:	(Specify) RHCP or LHCP
Axial Ratio:	3dB max
Return Loss:	14dB typical (1.5 to 1 VSWR)
Diameter, Length Dims.:	See schedule below
Color:	White or Black (specify)
Connector:	N female or TNC female
Mount:	Stainless steel bracket and U bolts (supplied)

Designation	Frequency	Gain	Elevation B/W	Azimuth B/W	Diameter	Length
SA225-10	2.0-2.5 GHz	10dBi	35 degrees	90 degrees	67mm/2.6"	275mm/10.8"
SA225-13	2.0-2.5 GHz	13dBi	18 degrees	90 degrees	67mm/2.6"	475mm/18.7"
SA225-15.5	2.0-2.5 GHz	15.5dBi	9 degrees	90 degrees	67mm/2.6"	875mm/34.4"
SA245-10	2.2-2.7 GHz	10dBi	35 degrees	90 degrees	67mm/2.6"	255mm/10.0"
SA245-13	2.2-2.7 GHz	13dBi	18 degrees	90 degrees	67mm/2.6"	435mm/17.1"
SA245-15.5	2.2-2.7 GHz	15.5dBi	9 degrees	90 degrees	67mm/2.6"	795mm/31.3"
SA470-10	4.4-5.0 GHz	10dBi	35 degrees	90 degrees	33.3mm/1.3"	176mm/6.9"
SA470-13	4.4-5.0 GHz	13dBi	18 degrees	90 degrees	33.3mm/1.3"	272mm/10.7"
SA470-16.5	4.4-5.0 GHz	15.5dBi	9 degrees	90 degrees	33.3mm/1.3"	464mm/18.3"
SA675-10	6.4-7.1 GHz	10dBi	35 degrees	90 degrees	27mm/1.1"	143mm/5.6"
SA675-13	6.4-7.1 GHz	13dBi	18 degrees	90 degrees	27mm/1.1"	210mm/8.3"
SA675-15.5	6.4-7.1 GHz	15.5dBi	9 degrees	90 degrees	27mm/1.1"	347mm/13.7"
SA700-10	6.7-7.4 GHz	10dBi	35 degrees	90 degrees	27mm/1.1"	139mm/5.5"
SA700-13	6.7-7.4 GHz	13dBi	18 degrees	90 degrees	27mm/1.1"	202mm/8.0"
SA700-13	6.7-7.4 GHz	15.5dBi	9 degrees	90 degrees	27mm/1.1"	331mm/13.0"

Note: The antennas can be tuned for tighter axial ratio specs (2dB and better) over narrower sub-bands.

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