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Data sheet 6GK5897-1NY00-0AA0



ANT897-1NY mobile wireless antenna for public and private 5G/4G/3G/2G mobile networks with 2 antenna elements; omnidirectional characteristic 700..4200 MHz; antenna gain: 0-2 dBi, including 2x 3 m cable with SMA male connection, color: black IP69K; -30..+70 °C; observe national approvals; mounting on non-conductive surface on roof and vehicle information sheet as hard copy German/English.

suitability for operation	antenna for public and private 5G networks, for installation on non-conductive surfaces
radio frequencies	
type of wireless network / is supported	5G public networks, 5G private networks, LTE, UMTS, GSM
operating frequency / 1	700 ... 960 MHz
operating frequency / 2	1700 ... 4200 MHz
electrical data	
antenna gain compared to spherical radiator	
● with linear radiation	measured in open space
● with linear radiation / in operating frequency area 1 / typical	0 dB
● with linear radiation / in operating frequency area 2 / typical	2 dB
impedance	50 Ω
polarization	Linear
radiation characteristic	omnidirectional
standing wave ratio (VSWR) / maximum	3
number of electrical connections / of the antenna	2
type of electrical connection / of the antenna	SMA Connector
design of plug-in connection	male
mechanical data	
material	
● of outer shell	Lexan EXL 9330
color	black
color / of cable sheath	Black
ambient conditions	
ambient temperature	
● during operation	-30 ... +70 °C
● during storage	-40 ... +80 °C
protection class IP	IP69K; with correct installation
design, dimensions and weights	
height	30 mm
diameter	115 mm
fastening method	from outside in 19 mm drill hole, one plastic nut
fastening method	
● mast mounting	No
● flat roof mounting	Yes
● wall mounting	No
● roof mounting	Yes
● directly on the device	No
wire length / of antenna cable	3 m

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product features, product functions, product components / general	
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	
● RoHS conformity	Yes
wireless approval	Current national approvals can be found on the Internet under www.siemens.com/mobilfunkzulassungen
reference code / according to IEC 81346-2:2019	TFB
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Mobile radio national approval	https://www.siemens.com/mobile-approvals
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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