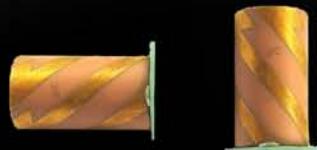




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M1575CQA1020A Ceramic Quadrifilar Antenna for GPS L1 Band



PRODUCT DESCRIPTION

The recently introduced Ceramic Quadrifilar Antenna has been upgraded with active LNA and single-ended 50ohm standard interface offering the highest efficiency and the lowest axial ratio in its class. Its compact size and ground-plane independence coupled with 10MHz operating bandwidth make it ideal for integration into both commercial and military handsets. The M1575CQA1020A integrates LNA+SAW filter so you can have reduced parts count and better performance.

PRELIMINARY SPECIFICATIONS

	Min	Typical	Max	Unit
Frequency GPS L1	1570	1575.42	1580	MHz
Polarization		RHCP		
Efficiency (upper hemisphere)		32		%
Efficiency (total spherical)		45		%
Passive Gain		-2.5		dBi
Total Realized Gain	+10.5		+11	dBi
LNA Noise Figure		0.85		dB
LNA Input P1dB	-4		-2	dB
LNA DC Voltage	1.5		2.0	V
LNA DC Current	7.3		10.5	mA
Out of Band Rejection (800MHz)		55		dBc
Out of Band Rejection (1.9GHz)		45		dBc
Beamwidth (3dB)		140°		degrees (both axis)
Bandwidth (1dB)		10		MHz
Cross Pole Rejection		15		dB
Axial Ratio		0.5		dB
Front to Back Ratio		15		dB
Return Loss		-13		dB
Impedance		50		Ohms
Overall Dimensions	10 (diameter) x 20 (height)			mm
Operating Temperature	-40	20	+75	°C

