

# Molex Quick Reference Guide

## GNSS Antennas



### CERAMIC GPS ANTENNAS

Series	213602	211624	212203	206640	208890	146168	204286
Key Features	Stacked ceramic patch for high precision navigation			Active patch with cable, two stage LNA	Ceramic patch, single feed pin, customized length options		
Frequency Range (MHz)	L2: 1227.6 / L1: 1575.42	L5: 1176.45 / L1: 1575.42 / GLONASS: 1602	L5: 1176.45 / L1: 1575.42	1561 / 1575 / 1602	1575	1575	1561 / 1575 / 1602
Size (mm)	36.00 by 36.00 by 7.00	36.00 by 36.00 by 7.00	25.00 by 25.00 by 8.00	25.00 by 25.00 by 6.50	18.00 by 18.00 by 2.00	25.00 by 25.00 by 4.00	25.00 by 25.00 by 4.00
Polarization	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP	Elliptic
Axial Ratio	N.A.	N.A.	N.A.	N.A.	<2.0	<3.0	<13.0 / <7 / <12
Total Radiation Efficiency	>50% / >80%	>74% / >74% / >75%	>65% / >75%	N.A.	>45%	>75%	>70% / >70% / 75%
Product Image							

Eliminating space and PCB real-estate constraints, Ceramic GPS antennas combine ease of integration with reduced cost of implementation over a variety of wireless navigation device applications.

Molex provides extensive experience in antenna technologies from concept-to-completion. Ready-To-Use RF Antennas are compact, high performing and available in multiple form factors for all common antenna protocols and frequencies used in IoT, automotive, industrial and medical applications. To find more email: [customerservice@molex.com](mailto:customerservice@molex.com)

[www.molex.com/link/gnss-gps.html](http://www.molex.com/link/gnss-gps.html)

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## GNSS Antennas



### GPS ANTENNAS

Series	146216	146235	206560	203007	146186	146220	204283
Key Features	LDS plastic material, superior performance, and small form factor		Flexible with cable, multiple length options	Multiple bands in one antenna, small form, high performance			Ceramic chip, small footprint
Frequency Range (MHz)	1561 / 1575 / 1602	1561 / 1575 / 1602	1561 / 1575 / 1602	1561 / 1575 / 1602 and 2.4 / 5 GHz	1575 / 1602 and 2.4 / 5 / 3 to 6 GHz	1575 / 1602 and 2.4 / 5 / 3 to 6 GHz	1561 / 1575 / 1602
Size (mm)	11.80 by 11.55 by 6.00	3.00 by 5.00 by 4.00	40.40 by 15.40	3.2 by 1.60 by 1.10	53.00 by 18.00	53.50 by 16.60	3.20 by 1.60 by 1.10
Polarization	RHCP	Elliptic	Linear	Linear	Linear	Linear	Linear
Axial Ratio	<3.0	<6.0	N.A.	N.A.	N.A.	N.A.	N.A.
Total Radiation Efficiency	>55% / >57% / 60%	>50% / >55% / 50%	>74% / >74% / >75%	>55% / >55% / >50% / >55% / >50%	>70% / >75% / >70% / >80%	>82% / >80% / >83% / >78%	>60% / >65% / >60%
Product Image							

Eliminating space and PCB real-estate constraints, LDS-MID and Flexi GPS antennas combine ease of integration with reduced cost of implementation over a variety of wireless navigation device applications.

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