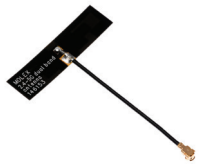
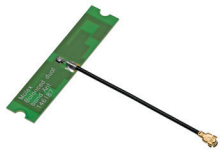
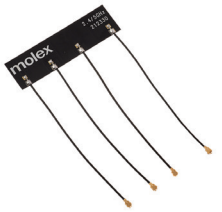
Molex Quick Reference Guide

Bluetooth/Wi-Fi Antennas

molex

2.4, 5 GHz FLEXIBLE AND PCB ANTENNAS					
Series	**146153**	**146187**	**204281**	**208482**	**212330**
Key Features	Balanced RF transmission, multiple cable lengths, center-fed/side-fed cables, 1 or 2 or 4 ports				
Size (mm)	34.90 by 9.00	40.95 by 9.00	35.00 by 11.00	40.40 by 15.40 by 0.10	70.00 by 20.00
Material	Flexible	PCB	Flexible	Flexible	Flexible
Frequency Range (GHz)	2.4 to 2.5 5.15 to 5.85	2.4 to 2.5 5.15 to 5.85	2.4 to 2.5 5.15 to 5.85	2.4 to 2.5 5.15 to 5.85	2.4 to 2.5 5.15 to 5.85
Return Loss (dB)	-10	-10	<-10	<-8 / <-13	<-10
Peak Gain (dBi)	3.0 / 4.0	3.2 / 4.5	2.0 / 3.3	Port1: 2.9 / 5.0 Port2: 3.4 / 5.9	Port1: 2.4 / 3.3, Port2: 2.6 / 2.3 Port3: 3.0 / 3.4, Port4: 3.5 / 3.9
Total Radiation Efficiency	>75%	>80% / >75%	>65% / >68%	Port1: 65% / 75% Port2: 75% / 70%	Port1: 55% / 70%, Port2: 55% / 60% Port3: 50% / 70%, Port4: 55% / 65%
Product Image					

Note: Performance values above are based on 100mm cable

Designed for fast and easy integration into wireless devices at minimal implementation cost, side and center-fed cable Flexible Antenna enable high-performance RF transmission for the most demanding Wi-Fi 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

www.molex.com

Order No. 987652-0741 Rev. 1

USA/0k/AD/2019.10

Molex Quick Reference Guide

Bluetooth/Wi-Fi Antennas

molex

2.4, 5 GHz FLEXIBLE AND PCB ANTENNAS		
Series	**206994**	**206995**
Key Features	Smallest flexible antenna	Direct mounting on metal surface
Size (mm)	15.00 by 6.00	20.50 by 20.50 by 3.00
Material	Flexible	PCB
Frequency Range (GHz)	2.4 to 2.5 5.15 to 5.85	2.4 to 2.5 5.15 to 5.85
Return Loss (dB)	-10	<-8.5 / <-10
Peak Gain (dBi)	3.6	2.6 / 3.4
Total Radiation Efficiency	>55% / >70%	>55% / >70%
Product Image		

Note: Performance values above are based on 100mm cable

Designed for fast and easy integration into wireless devices at minimal implementation cost, side and center-fed cable Flexible Antenna enable high-performance RF transmission for the most demanding Wi-Fi 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

www.molex.com

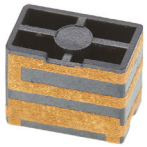
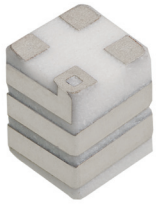
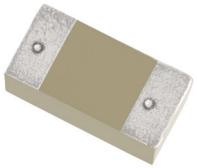
Order No. 987652-0741 Rev. 1

USA/0k/AD/2019.10

Molex Quick Reference Guide

Bluetooth/Wi-Fi Antennas

molex

2.4 AND 2.4, 5 GHz CERAMIC AND MID CHIP ANTENNAS					
Series	**146175**	**47948**	**206513**	**206514**	**211964**
Key Features	Highest performance in the market		Lower cost than LDS plastic		Low profile
Size (mm)	3.00 by 5.00 by 4.00	3.00 by 3.00 by 4.00	3.00 by 3.00 by 4.00	3.00 by 4.00 by 4.00	3.20 by 1.60 by 1.20
Material	LDS-MID	LDS-MID	Ceramic	Ceramic	Ceramic
PCB Mounting Recommendation	Corner mounting	Corner mounting	Corner mounting	Corner mounting	Center-edge mounting
Frequency Range (GHz)	2.4 to 2.5 5.15 to 5.85	2.4 to 2.5	2.4 to 2.5	2.4 to 2.5 5.15 to 5.85	2.4 to 2.5 5.15 to 5.85
Return Loss (dB)	<-6	<-7	<-6	<-8 / <-5	Config.1 (2.4 GHz): <-6 Config.2 (2.4/5 GHz): <-5
Peak Gain (dBi)	3.0 / 4.2	3	3.6	3.5 / 6.2	Config.1: 2.7 Config.2: 2.1 /2.2
Total Radiation Efficiency	>70%	>70%	>55%	>75%	Config.1: >80% Config.2: >70% / >65%
Product Image					

2.4 and 2.4, 5 GHz Ceramic and LDS-MID antennas offer outstanding performance and easy integration in connected city and home 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

www.molex.com

Order No. 987652-0741 Rev. 1

USA/0k/AD/2019.10