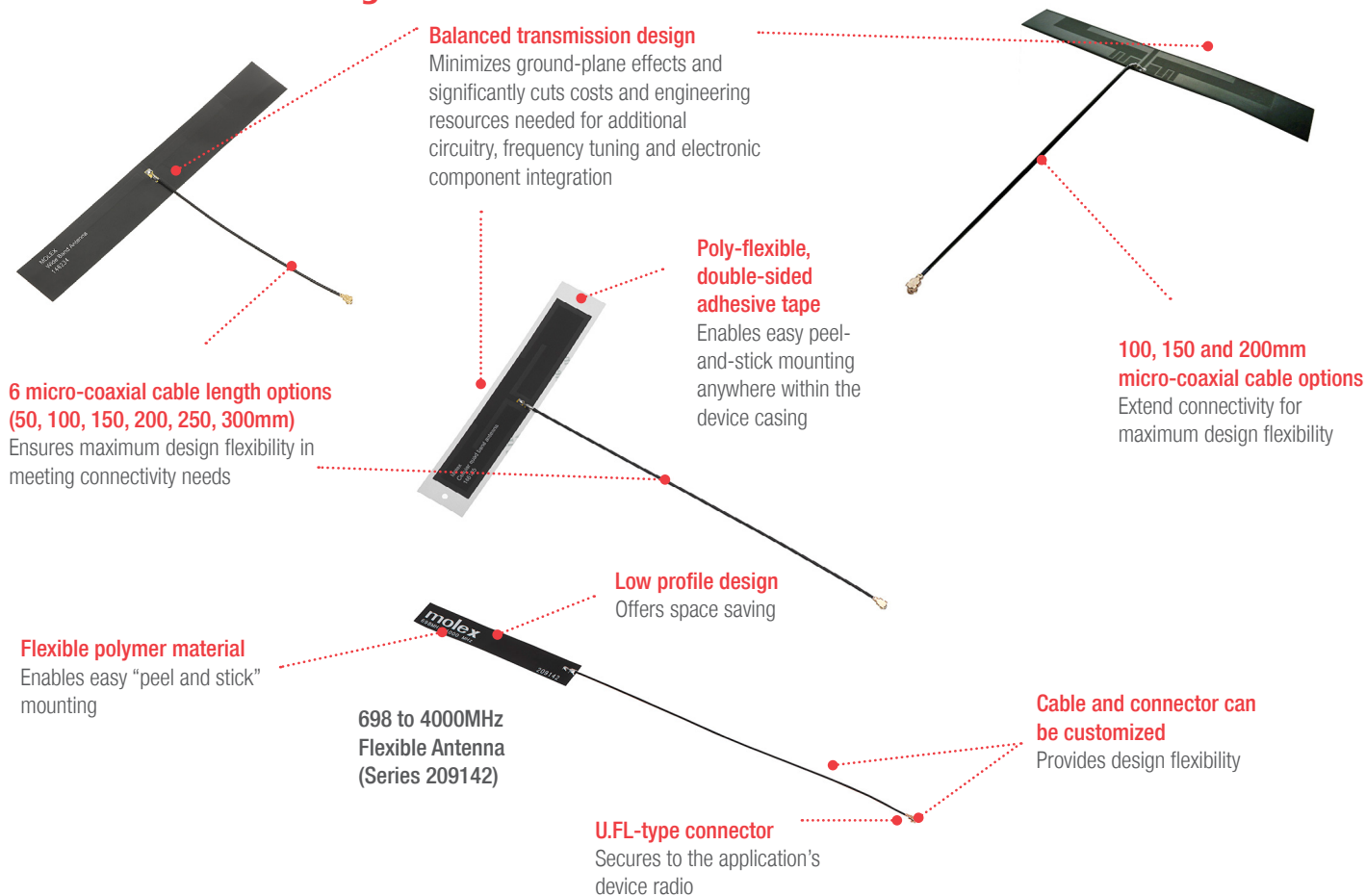


Cellular Flexible Antennas

molex

Wide-band antenna future-proofs wireless application developments to support evolving LTE and 4G cellular technologies

Features and Advantages



Applications

Telecommunications/Networking

Infrastructure/Networking

Industrial Automation

Smart grid concentrators
Smart meters
Home energy displays
Remote sensors
Alarm and monitoring systems

Consumer

Home entertainment
Home office



Networking Servers



Alarm and Monitoring Systems



Home Entertainment Systems

Specifications

REFERENCE INFORMATION

Designed In: Millimeters
 Mates With: Surface-mount, micro-coaxial jack
 (Part Number: 73412-0110) or other compatible
 RoHS: Yes
 Halogen Free: Yes
 Glow Wire Capable: No

ELECTRICAL

Voltage (Watt): 2
 Input Impedance (Ohms): 50

MECHANICAL

Cable Pull Force (min.): 8.0N
 Un-mating force (min.): 0.5 kgf

PHYSICAL

Cable Outer Diameter (mm): 1.13
 Operating Temperature: -40 to +85°C

Series	212570	207235	146185	105263	209142	146234	207901
Packaging	PET film	PET film	PET film	Tray	PET film	PET film	PET film
Frequency	824 to 960 MHz / 1.7 to 2.17 GHz				698 to 960 MHz / 1.5 to 3 GHz / 3 to 6 GHz		600 to 960 MHz / 1.5 to 3 GHz / 3 to 6 GHz
Dimensions (mm)	40.40 by 15.40 by 0.10	40.40 by 15.40 by 0.10	84.00 by 15.00 by 0.10	106.60 by 13.00 by 0.10	85.00 by 14.50 by 0.10	140.00 by 20.00 by 0.10	147.00 by 25.00 by 0.10
Return Loss	<-4 / <-3	<-4 / <-6	<-4	<-6	<-10 / <-5 / <-5	<-4 / <-5 / <-5	<-3 / <-5 / <-5
Average Total Radiation Efficiency	>25% / >50%	30% / 60%	>60% / >65%	>66% / >60%	>45% / >55% / >55%	>69% / >68% / >67%	>70% / >65% / >70%
Peak Gain (dBi)	-0.45 / 1.76	0 / 4.3	1.4 / 3.0	2.3 / 3.1	1.2 / 5.2 / 2.7	1.7 / 2.65 / 4.8	2.6 / 4.9 / 5.4

Ordering Information

Series No.	Description	Frequency Bands	Dimension (mm)
146234	Wide-band Cellular Flexible Antenna	698 to 960 MHz / 1.5 to 6 and 2.7 to 6 GHz	140.00 by 20.00 by 0.10
146185	Cellular Quad-band Flexible Antenna	824 to 960 MHz; 1.71 to 2.7 GHz and 3 to 6 GHz	84.00 by 15.00 by 0.10
105263	Multi(6)-band Flexible Antenna	824 to 960 MHz; 1.71 to 2.7 GHz	106.60 by 13.00 by 0.10
207235	Cellular Flexible Antenna	824 to 960MHz; 1.71 to 2.17GHz	40.40 by 15.40 by 0.10
207901	Flexible Antenna	600 to 960MHz; 1.50 to 3GHz; 3 to 6GHz	147.00 by 25.00 by 0.16
209142	Flexible Antenna	698 to 960MHz; 1710 to 2690MHz; 3300 to 4000MHz	85.00 by 14.50 by 0.10
212570	Flexible Antenna, Side-Fed	824 to 960MHz; 1.71 to 2.17GHz	40.40 by 15.40