Spring Clips for Mobile Devices

Wide working range, high durability

High durability spring clips offer smartphone makers maximum cost savings with superb interconnect performance over a wide working range

Features and Benefits

Wide working range from 0.30 to 2.00mm (combined series)	Offers greater design flexibility with specific loading control	
Anti-snag design (105386, 105439)	Prevents contact damage during assembly processing and yield loss	
Selection of clip widths from 1.00 to 2.00mm (combined series)	Supports small PCB applications	
1,500 durability cycles (105386)	Delivers sustained high performance	
Kinked ribs (105384)	Prevent solder wicking	
Device-to-PCB grounding contact	Reduces EMI noise and electrostatic discharge	
RF-to-PCB contact	Provides greater cost savings when used with non- soldered wire-less devices (example: antennas)	

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From right to left: Anti-snag spring clips with working range of 0.55 to 1.05, 1.40 to 2.00 and 1.25 to 1.75mm respectively (Series 105439).



Reinforced, anti-snag spring clip, 1.00mm width (Series 105386)



Kinked ribs, closed tip spring clip, 2.00mm width (Series 105384)

Applications

Smartphone and Mobile Devices

- Consumer / Data / Telecom / Networking
 - Digital cameras
 - Digital video recorders
 - Wireless LAN devices
 - Set top boxes
 - Small Office/Home Office (SOHO) switches and routers

Industrial

Surveillance, security cameras and systems Point-Of-Sale (POS) scanners



Small Office/Home Office (SOHO) Switches and Routers



GPS Devices



Smartphones and Tablets PCs



Security Cameras

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Product Features



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Low profile, high durability

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Specifications

Reference Information

Packaging: Tape on reel Mates With: Electronic and RF devices depending on customer application Designed In: Millimeters RoHS: Yes Halogen Free: Yes Glow Wire Compliant: No

Electrical

Voltage (max.): 10 Volts DC Current (max.): 1.5 A (105386, 105439); 1.0A (105384) Low Level Contact Resistance (max.): 50 milliohm (105386) 60 milliohm (105384) 75 milliohm (105439)

Mechanical

Normal Force: 0.25N minimum before durability (105384 and 105386) 0.20N minimum before durability (105439) 0.20N minimum after durability (all series) Durability: 1500 cycles Vibration: 3.10G (RMS) between 20 to 500Hz, 15 minutes

Physical

Housing: None Contact: Stainless Steel Plating: Contact Area — Refer to table Soldering Area — Gold (Au) Flash Underplating — Nickel (Ni) overall Operating Temperature: -40 to +85°C

Ordering Information

Series No.	Contact Gold (Au) plating (µm, min.)	Working Range (mm)	Uncompressed Height (mm)
<u>105386-0003</u>	0.25		
<u>105386-0004</u>	1.00	0.40 to 0.80	1.10
<u>105384-0001</u>			
<u>105384-0002</u>	0.50	0.70 to 1.10	1.40
<u>105384-0003</u>		0.30 to 0.55	0.80
<u>105439-0002</u>		0.55 to 1.05	1.25
<u>105439-0004</u>	0.25	1.25 to 1.75	1.95
<u>105439-0005</u>		1.40 to 2.00	2.20

www.molex.com/link/springclips.html