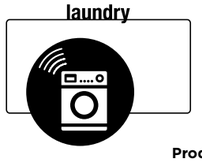
PRODUCT COMPARISON CHART

Laundry



Product Name	Logi Tag 141	Logi Tag 161	Logi Button Tag 162	Logi Tag 120	Logi Tag 160
Application	Mechanical, chemical and temperature resistant tags for harsh environments such as laundries		Mechanical, chemical and temperature resistant tags for harsh environments such as laundries	Mechanical, chemical and temperature resistant tags for harsh environments such as laundries	
Frequency	13.56 MHz		13.56 MHz	125 kHz	
Size	Ø14x2.9 mm	Ø16x3 mm	Ø16x2.5 mm	Ø12.4x2 mm	Ø16x3 mm
Standards / Protocol Support	ISO 15693, ISO 18000-3		ISO 15693, ISO 18000-3		
Chip Type[1]	I-Code SLIx-L	I-Code SLIx-L, I-Code SLIx	I-Code SLIx-L	Hitag S, Q5, Unique	Unique
Memory	512 bit RW	512 bit RW, 1024 bit RW	512 bit RW	64 Bit RO, 256 bit RW, 264 bit RW, 2048 bit RW	64 bit RO
Anti-collision	Yes		Yes	Hitag S - Yes	
Reading Distance[2]	Up to 12.6" (32 cm)	Up to 13.4" (34 cm)			
Mounting Method	Embed in cloth		Sew-on	Embed in cloth	
Operating Temperature[3]	-40 °C to +85 °C		-40 °C to +85 °C	-25°C to +85°C	-25°C to +85°C
Storage Temperature[3]	-40 °C to +85 °C		-40 °C to +85 °C	-40 °C to +130 °C	-25 °C to +120 °C
Peak Temperature[3]	+120 °C (100h), heat patch +220 °C (30s)		+120 °C (100h)	+160 °C (35h)	
Spin Dryer / Tunnel Finisher[3]	+175 °C (100 x 10 min)		+175 °C (100 x 10 min)		+175 °C (100 x 10 min)
Thermal Shock[3]	-20 °C to +160 °C (100 x 5 min)			-20°C to +160°C (100 x 5 min)	
Housing Material	Modified Thermoplastic			PPS with epoxy potting	Epoxy
Chemical and Environmental Resistances[3]	Water, IP68 (1m, 24h), HCL, Bleach, Perchlorethylen		Water, IP68 (1m, 24h), Industrial laundry detergent pH 10-11, Neutralizing agent, Hydrogen peroxide 5%, Perchlorethylen	Water IP68 (1m, 24h), saltwater, gasoline, oil, HCL, bleach, formic acid, caustic soda	
Mechanical Resistances[3]	Vibration IEC 68.2.6, Shock IEC 68.2.29, 100 drops 1.8 m			Vibration IEC 68.2.6, shock IEC 68.2.29	
Axial / Radial Force[3]	1000N / 1000N (10 sec)			800N / 500N (10 sec)	1000N / 1000N (10 sec)
Water Pressure[3]	20 bars (100 x 3 min)				20 bars (100 x 3 min)
Warranty[4]	2 years		2 years	2 years	

1 Unique (64 bit RO), Q5 (264 bit RW), Hitag S (256 bit RW, 2048 bit RW), I-Code SLIx-L (512 bit EEPROM, incl. 256 bit user memory), I-Code SLIx (1024 bit EEPROM, incl. 896 bit user memory), I-Code SLIx-S (2048 bit EEPROM, incl. 1280 bit user memory)
2 Read range is strongly dependent upon multiple parameters including reader, environment and application. HID Global tags are tested and proven to be at the top of their class.
3 For further specification details, please see datasheets of the respective products. I-Code SLIx and F-Mem MB89R118C have a minimum operating temperature of -40°C, previous chip generations had -25°C.
4 Storage condition must not exceed specification for temperature, chemical, mechanical, electrical condition, storage from -25°C to + 50°C, humidity 20% to 80%

Finding what you need

HID Global has many more products to offer than fit on this page. Please refer to **hidglobal.com** or contact an HID representative for further assistance in evaluating these tags or selecting a solution that best fits your particular requirements.

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