

PRODUCT COMPARISON CHART

HF: 13.56 MHz / ISO 14443 / NFC*

Compliant with ISO/IEC 18000-3 and other standards.

	DISCS	EMBEDDABLE		SPECIALTY		
Product Family	Embeddable RFID	Inlays & Labels		Epoxy Keyfob	ID Band	ISO Card
Sub-family	Clear Disc	Paper Label	Wet Inlay		MIFARE	MIFARE
Description	Transparent coating resists chemical exposure, shock, vibration and thermal fluctuations	Custom-imprintable labels to integrate digital touch points onto physical media	Small, thin, translucent self-adhesive; hide discretely behind print media or inside product packaging.	Customer-friendly form keeps credentials at hand; withstands rigors of daily transport in pockets or purses	Wrist band for high-moisture environs such as water parks, pools, saunas and wellness areas	Standard dimension cards enable access control, cashless payment and related applications
Chip type	MIFARE DESFire EV1/EV2	NTAG 213	NTAG 213, HID Trusted Tag	MIFARE EV1 1K, HID Trusted Tag	MIFARE DESFire EV1	MIFARE DESFire EV1/EV2, HID Trusted Tag
User memory up to	4 KB	144 byte	144 byte, 8KB	8 KB	8 KB	8 KB
Reading distance up to	Near tap	Near tap		Near tap		
Other frequencies	LF			LF	LF	LF, UHF
Dimensions <i>Refer to datasheets for other available sizes</i>	Ø 0.98 in (25 mm)	Ø 0.9 in (23 mm), Ø 1.1 in (29 mm) or Ø 1.6 in (40 mm)		1.2 x 1.8 x 0.06 in (30 x 45 x 1.6 mm)	Strap: 9.5 x 0.6 x 0.05 in (241 x 16 x 1.5 mm); Housing: Ø 1.0 x 0.2 in (25 x 4.4 mm)	ISO card 3.4 x 2.1 x 0.03 in (85.6 x 54 x 0.84 mm); sticker 1.9 x 1.0 in (48 x 25 mm)
Mount on metal						
Moisture resistance	IP67	IP67		IP67	IP68	IP68
Food compatible						
Operating temperature	-4° to +140° F (-20° to +60° C)	-4° to +158° F (-20° to +70° C)		-13° to +176° F (-25° to +80° C)	-13° to +140° F (-25° to +50° C)	-31° to +122° F (-35° to +50° C)
Peak temperature	194° F (90° C)	257° F (125° C)		284° F (140° C)	212° F (100° C)	176° F (80° C)
Flame resistant						
Standards <i>Compliant with ISO 18000-3, ISO 14443A and others listed</i>	ISO 14443 NFC Tag Type 4	ISO 14443 NFC Tag Type 2 (NTAG 213) NFC Tag Type 4 (Trusted Tag)		ISO 14443 NFC Tag Type 4	ISO 14443 NFC Tag Type 4	ISO 14443 NFC Tag Type 4 ISO 10373 ISO 7816-1

* To be NFC Forum Tag Type compliant, tags need to be formatted with an NDEF data structure. The above listed Tag Types 2 and 4 are supported by all known NFC devices. NFC-V Tag Type 5 (ISO 15693) has been officially standardized by NFC Forum in June 2015 and may not be supported by some older NFC devices. These tags can be found on the HF / ISO 15693 Tag comparison chart. Android and Windows 10 Phone typically support tag type 5.



HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials. A comprehensive reference of RFID tag variations can be found at www.rfid.com

Enhanced security potential with HID Trusted Tag® Services

Tags equipped with HID Trusted Tag integrated chips are uniquely programmed to enhance security and efficiency when deployed with HID Trusted Tag® Services. Our cloud-based NFC authentication platform adds unique identities to everyday objects enabling more secure, efficient transactions. Simply tap an embedded or attached HID Trusted Tag with any NFC device. Trusted Tag Services deliver a frictionless authentication experience for "proof-of-presence" applications, including time-and-attendance, brand protection, promotional marketing and Internet of Things programs.

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