

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	Poly Tag™	Inlays & Labels		Inlays & Labels - On Metal	InLine Tag* Plate	Seal Tag	Epoxy Keyfob	ISO Card	Secure Mobile Device Sticker
Sub-family	Clear Disc	HF	Paper Label	Wet Inlay	OM Label	Asset Tag	eTamper Coin		MIFARE	
Description	Transparent coating resists chemical exposure, shock, vibration and thermal fluctuations	Rugged disc for outdoor applications and other harsh environments. Optimal Trusted Tag® Services enabled.	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.	Thin, printable self-adhesive labels for on-metal use	Small on-metal asset tags utilizing HID Trusted Tag® Services for authentic "proof of presence". Printable or clear housing options.	Self destructing when removed, eTamper Coin TTS adds a non-replicable identity to each interaction - ideal for "proof of presence" applications.	Customer-friendly form keeps credentials at hand; withstands rigors of daily transport in pockets or purses	Standard dimension cards enable access control, cashless payment and related applications	Printable ISO card with detachable sticker that adheres to mobile phones or metal objects for NFC applications
Chip type	MIFARE DESFire EV1/EV2	NTAG 216, HID Trusted Tag	NTAG 213	NTAG 213, HID Trusted Tag	NTAG 213	HID Trusted Tag	MIFARE DESFire EV1/EV2, HID Trusted Tag	MIFARE EV1 1K, HID Trusted Tag	MIFARE DESFire EV1/EV2, HID Trusted Tag	MIFARE DESFire EV1
User memory up to	4 KB	888 byte, 8KB	144 byte	144 byte, 8KB	144 byte	8 KB			4K	
Reading distance up to	Near tap		Near tap		Near tap	Near tap				
Other frequencies	LF				UHF			LF	LF, UHF	
Dimensions <i>Refer to datasheets for other available sizes</i>	Ø 0.98 in (25 mm)	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)	Ø 0.86 in (22 mm), Ø 0.9 in (23 mm) or Ø 1.6 in (40 mm)		max. 2.4 x 0.9 x 0.05 in (60 x 24 x 1.2 mm)	"1.2 x 2.5 x 0.12 in (30 x 65 x 3.5 mm)"	Ø 1.5 in (39 mm)	1.2 x 1.8 x 0.06 in (30 x 45 x 1.6 mm)	3.4 x 2.1 x 0.03 in (85.6 x 54 x 0.76 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		Yes			Yes	Yes	Yes			Yes
Moisture resistance	IP67	IP69K, IP68	IP67		IP68	IP68		IP67	IP68	IP68
Food compatible										
Operating temperature	-4° to +140° F (-20° to +60° C)	-13° to +185° F (-25° to +85° C)	-4° to +158° F (-20° to +70° C)		-4° to +158° F (-20° to +70° C)	-40° to +185° F (-40° to +85° C)	-13° to +158° F (-25° to +70° C)	-13° to +176° F (-25° to +80° C)	-31° to +122° F (-35° to +50° C)	-31° to +122° F (-35° to +50° C)
Peak temperature	194° F (90° C)	266° F (130° C)	257° F (125° C)		185°F (85°C)			284° F (140° C)	176° F (80° 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	NFC Tag Type 2 (NTAG 216) NFC Tag Type 4 (Trusted Tag)	ISO 14443 NFC Tag Type 2 (NTAG 213) NFC Tag Type 4 (Trusted Tag)		ISO 14443 NFC Tag Type 2 (NTAG 213)		ISO 14443 NFC Tag Type 4		ISO 14443 NFC Tag Type 4 ISO 10373 ISO 7816-1	ISO 14443 NFC Tag Type 4

* 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.



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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.

