

**PRODUCT COMPARISON CHART**

HF: 13.56 MHz / ISO 14443 / NFC\*

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

	DISCS		EMBEDDABLE				SPECIALTY			
<b>Product Family</b>	<b>Embeddable RFID</b>	<b>Poly Tag™</b>	<b>Inlays &amp; Labels</b>		<b>Inlays &amp; Labels - On Metal</b>	<b>InLine Tag® Plate</b>	<b>Seal Tag</b>	<b>Epoxy Keyfob</b>	<b>ISO Card</b>	<b>Secure Mobile Device Sticker</b>
<b>Sub-family</b>	Clear Disc	HF	Paper Label	Wet Inlay	OM Label	Asset Tag	eTamper Coin		MIFARE	
<b>Description</b>	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
<b>Chip type</b>	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
<b>User memory up to</b>	4 KB	888 byte, 8KB	144 byte	144 byte, 8KB	144 byte	8 KB			4K	
<b>Reading distance up to</b>	Near tap		Near tap		Near tap	Near tap				
<b>Other frequencies</b>	LF				UHF			LF	LF, UHF	
<b>Dimensions</b> <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 0.9 in (23 mm), Ø 1.1 in (29 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)
<b>Mount on metal</b>		Yes			Yes	Yes	Yes			Yes
<b>Moisture resistance</b>	IP67	IP69K, IP68	IP67		IP68	IP68		IP67	IP68	IP68
<b>Food compatible</b>										
<b>Operating temperature</b>	-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)
<b>Peak temperature</b>	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)
<b>Flame resistant</b>										
<b>Standards</b> <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](http://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.