

Inlay Features

- Rain RFID compliant
- NFC compliant
- Dual Frequency
- CE / RoHs / REACH Compliant¹

Application

- Retail
- Apparel
- Advertising
- Supply Chain Management

Inlay Layout and Dimensions

Antenna width	46 mm ± 0.1 mm (1.81 in ± 0.0039 in)
Antenna length	27.48 mm ± 0.1 mm (1.08 in ± 0.0039 in)
Lengthwise pitch	50.80 mm ± 0.1 mm (2.31 in ± 0.0039 in) ²
Web width	57.8 mm ± 0.3 mm (2.28 in ± 0.0118 in) ³

Inlay Composition

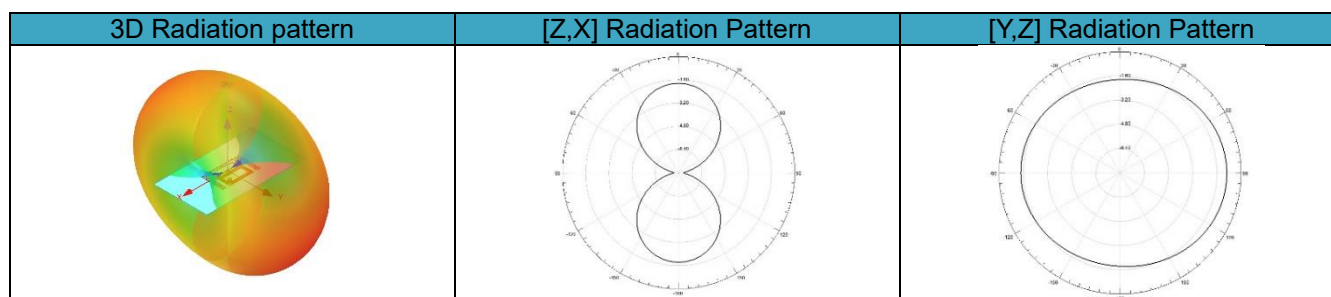
Composition	Material	Thickness ⁴ [µm]
Top	Aluminum	30 ± 1 µm
Support	PET	38 ± 2 µm
Bottom	Aluminum	10 ± 1 µm

Available ICs

EM Microelectronic	EM ECHOV	
Product code	DF4228-ECHOV	
Operating freq.	860 ÷ 960 MHz	13.56 MHz
RF Standard	EPC Class 1 Gen2v2 – ISO 18000-6C	ISO15693
Thickness	150 µm ± 15 µm	
Operating temp.	-40 °C to +85 °C	
Unique Serial number	Shared unique IC serial included in TID and UID	
EPC code	Up to 480-bit	-
User Memory	Configurable 2048-bit memory	
TID/UID	96-bit	64-bit
Reserved memory	512-bit	-
Data Retention	50 years	
Write Endurance	100 000 cycles	

General supply conditions

Reel dimensions	Internal diameter	76mm
	External diameter	< 300mm
Reel quantity	Inlay per reel	About 10 000 good. (Any reel is labelled with amount of good and bad inlays)
Wound Outside	Inlay facing outside while unwinding	
Quality check	Functionality of any inlay is tested	
Yield	1% average (any reel is labelled with amount of good and bad inlays)	



¹ Declarations are available on request.

² This value could be defined upon request.

³ This value is referred to the single row.

⁴ Overall thickness depends on the IC. For IC thickness please refer to the "Available ICs" table.