



IDCycle® RFID Recyclable Cup



SKU:	IDCycle®CUP-568
Frequency:	UHF 860-960 MHz
EPC Memory:	96 bits
Durability:	Withstand 50+ drops tests of 1.2 m height
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
Cup Volume:	568 ml(1 Pint)
Read Range:	Stable detected within 2 m
Industry:	Retail, Catering, Events
Applications:	Inventory, Liquids, Social Engagement, Asset tracking

The IDCycle® RFID Recyclable Cup is an innovative solution designed to enhance waste management and recycling efficiency. Embedded with an RFID inlay chip compatible with EPCglobal Gen2v2 and ISO/IEC 18000-63 standards, it works seamlessly with most RFID readers and systems. This makes it ideal for use in catering services, vending machines, and public venues, where tracking and reuse of cups can significantly reduce waste.

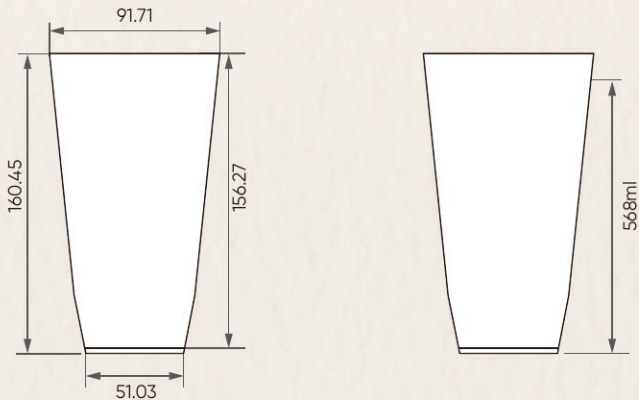
In real-world applications, users can rent and return cups via RFID-enabled machines. When a cup is returned, the machine scans the chip, updates backend data such as cup inventory, and can automatically issue rental refunds or reward points linked to customer accounts. This system not only streamlines operations for merchants but also encourages eco-friendly behavior through incentives, boosting both sustainability and customer engagement.

Physical Information	Material	Food-grade Polypropylene(PP) plastic
	Cup Volume	568 ml(1 Pint)
	Weight	63 g
	Operating Environment	-20°C~+120°C, 5%~100% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Fields of Application	Cafes and Restaurants, Office, Meeting events, School, Vending and Drinks Machines, Sports venues and Entertainment venues, Public institutions, Hotel, Park.

Technical Information	Operating Frequency	860~960 MHz
	Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
	Read Range	Stable performed within 2 m
	EPC Memory	96 bits
	TID Memory	96 bits
	Unique Serial Number	48 bits unique serial number factory-encoded into TID
	Security Features	32 bits kill password to permanently disable the tag and support memory safeguard

Packaging Information	Packing Format	Stacked together, packed in carton
	Packing Quantity	10 Cups/set

Size and Specification Drawing
(Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.
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