

CK-A5

5DBI UHF RFID SHELF ANTENNA SYSTEM



The 5dBi UHF RFID Shelf Antenna revolutionizes asset tracking with its patent-pending microstrip array technology. Engineered for vertical installation in library shelves and archival cabinets, this circularly polarized antenna delivers unmatched 99.9% tag read accuracy across 840-960MHz spectrum. Its 45° horizontal beamwidth precisely aligns with book spines while maintaining <1.3 VSWR for interference-free operation alongside metal shelves.

- 12mm Ultra-Thin Shelf Integration
- RFID technology 840~960MHz optional, support protocol extension
- 100+ Tags Instant Scanning Capacity
- Ultra-Low 1.3:1 VSWR for Stable Transmission
- IP65 Ruggedized ABS-Aluminum Hybrid Design
- Cross-Platform Compatibility with Zebra/Impinj/Alien Readers

● Specification

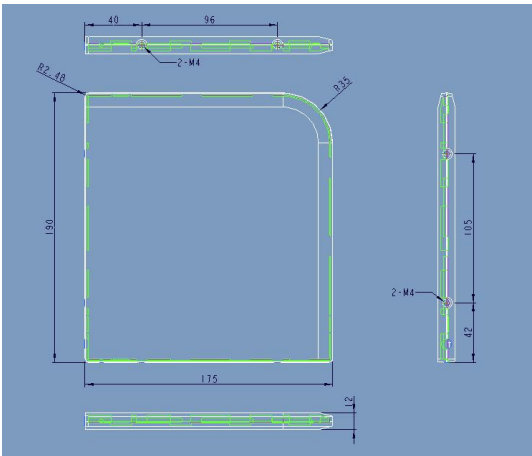
Model	CK-A5
RF SPECIFICATION	
Identification Method	UHF
c	840MHz~960MHz
Protocol Support	EPC C1G2, ISO 18000-6B, ISO 18000-6C
Antenna Gain	0-33 dbm adjustable
Polarization Type	Circular
Peak Gain @915MHz	5dBi
Axial Ratio	<3dB
H-plane HPBW	45° ±2°
E-plane HPBW	40° ±2°
VSWR	≤1.3:1
Impedance	50 Ω
Connector Type	SMA-KF
Size	190×175×12mm
Weight	200g
BASIC SPECIFICATION	
Material	ABS+Aluminum 6061
Working Humidity	10%RH~90%RH
Operat Temperature	-40° C~+85° C
IP Rating	IP65

● Related Model

● Common Solution

Smart Library, Archival Room, Tool Room, Supermarket, etc.

● Dimension



Unit : mm (inch)
Weight. : about 200g

● Accessory

No.	item	units	quantity
1	power supply	pcs	1
2	fixed bracket	pcs	1



RFID IoT Application



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