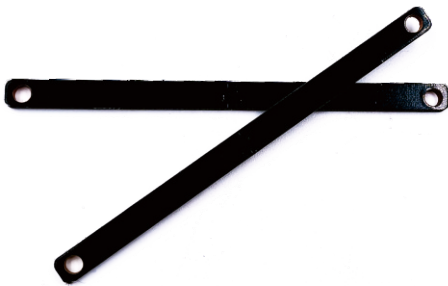




Cubnut-HT Needle

80 x 5 x 2 mm U8



Unlike flexible sticker-style RFID labels, these tags use PCB technology for their antenna and circuitry and are constructed from rigid materials, making them extremely robust, compact, and optimized for challenging environments — especially when attached to metal surfaces, tools, and industrial equipment, or deployed in harsh conditions (high temperatures, humidity, impact, vibration, etc.).

With multiple mounting options and support for global UHF RFID standards, these RFID PCB tags integrate seamlessly into existing systems, offering accurate identification, improved visibility, and reduced operational costs.

Highlights & Benefits

- ✓ Outstanding performance
- ✓ Durable PCB construction for long term usage
- ✓ Multiple mounting options for installation
- ✓ ETSI(865-868 MHz) and FCC(902-928 MHz) optional
- ✓ Customization-design, printing, encoding available

Applications

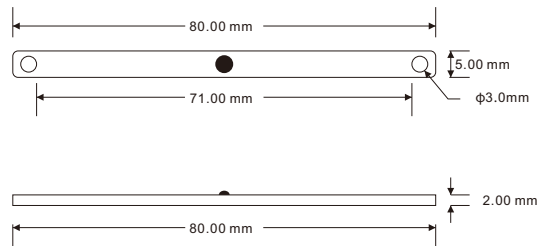
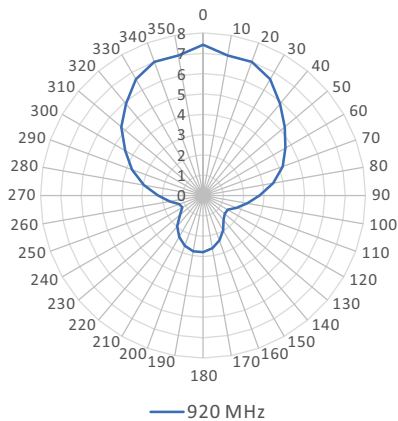
- ✓ Facility & equipment
- ✓ Fixed asset
- ✓ Container
- ✓ Storage rack



Technical Features

Model	RCP8045
RFID Features	
Air Interface Protocol	EPC Class 1 Gen 2 / ISO 18000-63 Type C
Frequency	860-960 MHz
Chip Type	NXP Ucode 8
Memory	User - N/A; EPC - 128 bits; TID - 96 bits
Data Storage	> 10 years
Re-write	100,000 times
Read Range(2W ERP)	FCC: > 7.5 m(24.6 ft) , on metal
Physical Features	
Dimension	80 x 5 x 2 mm / 3.15 x 0.20 x 0.08 in
Material	PTFE
Weight	2.0 g
Color	Black
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Survival Temperature	180°C(356°F)/10 hours; 250°C(482°F)/150minutes; 280°C(536°F)/50 minutes
Storage Condition	20±5°C, 50±10% RH, Store away from sunlight
IP Rate	IP68, test for 5 hours at 1m deep water
Other Features	
Installation	Adhesive(clean and dry surface), Rivet, Magnet, Screw
Customization	Printing, Encoding, Design, etc.
Package	200 pcs / bag, 20 bags / box

Radiation Pattern



PS: The performance is theoretical values in the lab and the actual effect depends on the specific applications.



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DISCLAIMER

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