



SIC279

134.2kHz, 192 Bits, Extended Read Range HDX RFID IC

REV 1.0

Features Summary

Highlight Features

- Standard and advanced animal R/W RFID Transponder Tags
 - Long read range transponder
 - On-chip 330pF resonant capacitor
 - On-chip 0-64 tuning capacitor
- Half duplex FM telegram fc 124/134 kHz contactless read/write data
- Small die size, suitable for implantable 2.0mm glass tags

Memory

- R/W user data memory of 6x32 (192 bits) for database management
- Supporting user access to factory unique ROM ID (UID), preventing chips from cloning
- Write endurance > 100,000 R/W cycles
- Memory retention > 20 years
- Direct Access/Write Mode
- Protected Direct Access/Write Mode by password
- Read-Only Animal ID sections when no command received
- Read/Write or OTP Configuration
- Supporting cascading commands
- Comprehensive error logging reports

Support Standard

- Fully compliant with ISO 11784/11785 HDX R/O animal tag ID data protocol/structure

Operating Conditions

- Carrier frequency fc Is 124/134 kHz
- Operating temperature: -25°C to 85°C

Applications

- HDX ISO 11784/11785 Animal Tag
- ICAR compliant RFID Tags
- Animal Transitional tags
- Food Traceability tags
- Long Read-Range EAS Transponders
- Automotive Guide Vehicle (AGV)



Revision History

Part No.	Description	Package	Marking	Status
P002LS279WHDFN-01	SIC279, HDFN Package Type, Half Duplex System. LF Mode, RW Memory 512 Bits, IC	HDFN	27A	Active
P002LS279WHDFN-02	SIC279, HDFN Package Type, Half Duplex System. LF Mode, RW Memory 512 Bits, Die face up, IC	HDFN	27A	Active
P002LS279WHDFN-03	SIC279, HDFN Package Type, Half Duplex System. LF Mode, RW Memory 512 Bits, 2 side peeling emboss	HDFN	27A	Active
P002LS279WHDFN-04	SIC279, HDFN Package Type, Half Duplex System, LF Mode, RW Memory 512 Bit, Big reel & Die face up, IC	HDFN	27A	Active
P002LS279WHDFN-05	SIC279, HDFN Package Type, Half Duplex System, LF Mode, RW Memory 512 Bit, (Pack by canister), IC	HDFN	27A	Active
P002LS279WHDFN-06	SIC279, HDFN Package Type, Half Duplex System, LF Mode, RW Memory 512 Bit, (Pack by canister), IC	HDFN	27A	Active
P002LS279WHDFN-07	SIC279, HDFN Package Type, Half Duplex System, LF Mode, RW Memory 512 Bit, Big reel, IC	HDFN	27A	Active

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