

On-Metal Tag 125kHz read-only

The On-Metal Tag is a contactless 125 kHz read-only RFID (Radio Frequency Identification) transponder designed and developed by Elan group. With specially developed dielectric material, the tag can be sensed on metallic surfaces and metal goods.



Chip Type:

- 125kHz Read-only with 64 bit unique ID (Manchester coding)

Physical:

- Dimension: 16 mm
- Thickness: 3 mm
- Material: Nylon or Nylon66

Electrical:

- Operating frequency: 125 kHz (± 6 kHz)

Thermal:

- Operating temperature: -40°C to $+85^{\circ}\text{C}$
- Storage: -40°C to $+120^{\circ}\text{C}$
- Shock: $+150^{\circ}\text{C}$ Nylon or $+185^{\circ}\text{C}$ Nylon66 for 30 minutes

Optional:

- 13.56MHz read-write ICs

Part Number:

- EM-OMT01S-N0 (nylon)
- EM-OMT01S-N6 (nylon66)
- Special part numbers are provided for customized orders

FOR RELIABLE READING ON METALLIC SURFACES

This specification is subject to change without prior notice. Any additional requirement for a specific customer application has to be validated by the customer himself at his own responsibility. Disclaimer: Elan Microelectronic Corporation's products are not authorized to use as critical components in life support devices or systems where product failure may lead to injury, death, environmental or property damage. Liability for use in such applications is the responsibility of the system designers. Malfunctioning tags will be replaced if the failure occurred before attaching to the object carrier.