D6.7-UTAG special

UHF-RFID transponder for industrial environmental conditions and using on metal
- passive RFID communication ISM UHF band, EPC
  Class1 Gen2 or ISO 18000-6C
- round TAG, half lens case, diameter 6.7 mm
- special EPOXY housing
- for mounting on objects including metal surfaces
- designed for item and object tagging

This transponder device is an integral part of microsensys iID® system solutions.

RFID Technology: UHF closed coupling system iID®4000, based on ISO 18000-6c, EPC Class1 Gen2
Chip Types: NXP UCODE G2XM or Impinj Monza 5
Frequency Range: preferably EU ISM Band 860-868MHz
Polarisation: without polarisation, inductive coupled
Communication Rate:
  forward link: 40-160kBit/s
  return link: 40-640kBit/s
  with closed coupling UHF readers
  with inductive coupled external dipole
  in every case depending on reader system and environmental conditions
Communication Distance:
  0 … 15 mm
  up to 500 mm
Memory: EEPROM
  endurance 100000 cycles, data retention 50 year (T<55°C)
  features are depending on used RFID chip
  Monza 5
  G2XM
  only G2XM
  see application note microsensys
Memory Capacity:
  128 bit EPC, 64 bit TID
  240 bit EPC, 64 bit TID
User Memory:
  512 bit
Special Functionality:
Operating Temperature:
  -25°C ... +85°C
Storage Temperature:
  -45°C ... +125°C (for short time +150°C)
Dimensions:
  D 6.7 mm, max. TH 2.5 mm,
  half lens housing,
  total hermetically encapsulated with special EP
Packaging Material:
  EPOXY
  material code: 1111.2001.301.4321
  using on metal plane side on ground
  recommended glue: see application note
Mounting Instructions:
Protection Class:
  IP67
Marking:
  no marking
  optional, on inquiry: color dots
Appropriate RFID Reader:
  POCKETwork UHFcc
  PENsolid UHFcc
  INDUSTRY 0906 UHF plus M18 UHFcc
  others possible
HOST Command Set:
  see actual API documentation of microsensys iID® driver engine

Type : 18.911.252.00* 18.933.252.00
Chip Type: UCODE G2XM Monza 5
User Memory: 512 0
Communication Distance: 10 10

*on inquiry
measured with M18 UHF antenna and IND 0906