# RFID ANTENNA

## Contents



SHINHOM

Pb

RoHS Compliant

All parts listed in this catalog are lead free and RoHS compliant

## Low–frequency receiving antenna

# RFID1103 SERIES

### FEATURES:

- Robust construction for a high mechanical stability
- Qualified to AEC–Q200
- Suitable for pick and placeand AOI (Automatic Optical Inspection)
- Suitable for lead–free reflow soldering
- RoHS–compatible

### APPLICATIONS:

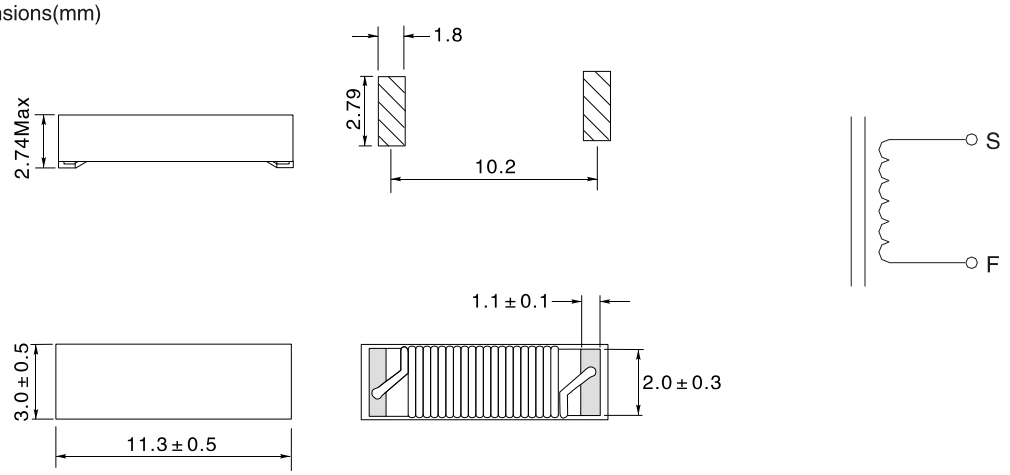
- Car access system
  Immobilizer
  PEPS (Passive Entry, Passive Start)
- TPMS (Tire Pressure Monitoring Systems)

## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (mH) | Test frequency (KHz) | Impedance ( Ω ) | Q |
|---|---|---|---|---|
| RFID1103–192 | 1.97 ± 5% | 125 | 34 | 15 |
| RFID1103–232 | 2.38 ± 5% | 125 | 39 | 15 |
| RFID1103–332 | 3.3 ± 5% | 125 | 51 | 15 |
| RFID1103–412 | 4.15 ± 5% | 125 | 74 | 17 |
| RFID1103–502 | 4.99 ± 5% | 125 | 96 | 17 |
| RFID1103–682 | 6.8 ± 5% | 125 | 112 | 17 |
| RFID1103–712 | 7.1 ± 5% | 125 | 115 | 17 |
| RFID1103–812 | 8.1 ± 5% | 125 | 123 | 17 |
| RFID1103–902 | 9.0 ± 5% | 125 | 135 | 17 |
| RFID1103–103 | 10.0 ± 5% | 125 | 145 | 17 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

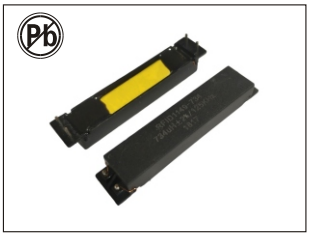



NOTE:

- Test Frequency : 125KHz @25℃.
- Testing Instrument : HP4284A
- Ambient Temperature: –40℃ – +85℃.
- Storage Temperature: –40℃ – +105℃.

## Low–frequency receiving antenna

# RFID1149 SERIES



### FEATURES:

- Robust construction for a high mechanical stability
- Qualified to AEC–Q200
- Suitable for pick and placeand AOI (Automatic Optical Inspection)
- Suitable for lead–free reflow soldering
- RoHS–compatible

### APPLICATIONS:

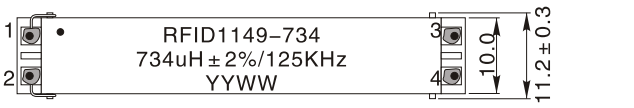
- Car access system
  Immobilizer
  PEPS (Passive Entry, Passive Start)
- TPMS (Tire Pressure Monitoring Systems)

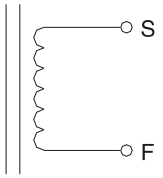
## ELECTRICAL CHARACTERISTICS:

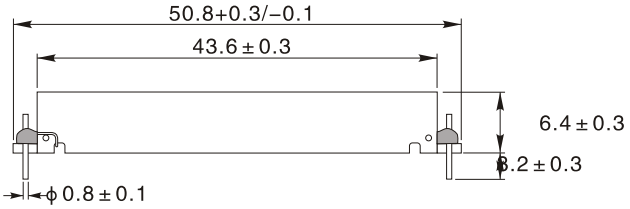
| Part Number | Inductance (uH) | Test frequency (KHz) | Resistance ( Ω ) | Q |
|---|---|---|---|---|
| RFID1149–734 | 734 ± 5% | 125 | 2.8 ± 10% | 120 |

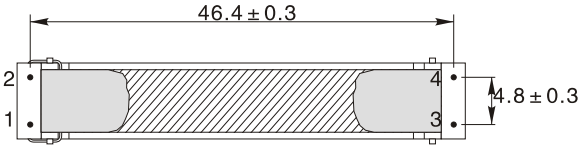
## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

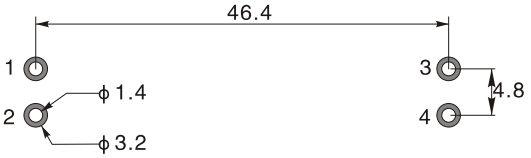
Dimensions(mm)



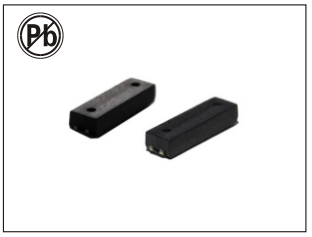

Recommended pad layout

NOTE:

- Test Frequency : 125KHz @25℃.
- Testing Instrument : HP4284A
- Ambient Temperature: –40℃ – +85℃.
- Storage Temperature: –40℃ – +105℃.

## Low–frequency receiving antenna

# RFID0803C SERIES



### FEATURES:

- Robust construction for a high mechanical stability
- Qualified to AEC–Q200
- Suitable for pick and placeand AOI (Automatic Optical Inspection)
- Suitable for lead–free reflow soldering
- RoHS–compatible

### APPLICATIONS:

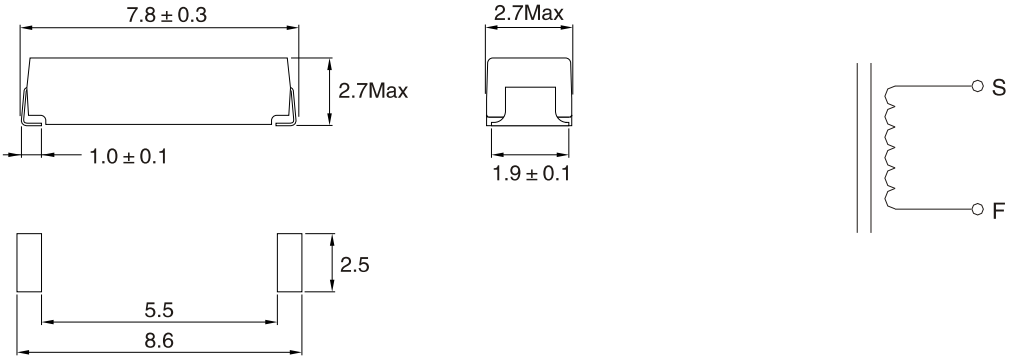
- Car access system
  Immobilizer
  PEPS (Passive Entry, Passive Start)
- TPMS (Tire Pressure Monitoring Systems)

## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (mH) | Test frequency (KHz) | SRF (MHz) Min | Q |
|---|---|---|---|---|
| RFID0803C–102 | 1.0 ± 3% | 125 | 3.0 | 35 |
| RFID0803C–232 | 2.36 ± 3% | 125 | 2.0 | 35 |
| RFID0803C–722 | 7.2 ± 3% | 125 | 1.0 | 35 |
| RFID0803C–183 | 18.52 ± 3% | 125 | 0.4 | 30 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

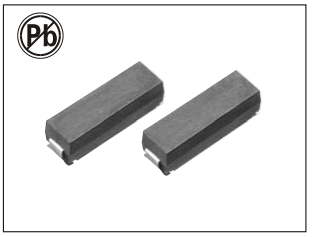



NOTE:

- Test Frequency : 125KHz @25℃.
- Testing Instrument : HP4284A
- Ambient Temperature: –40℃ – +85℃.
- Storage Temperature: –40℃ – +105℃.

## Low–frequency receiving antenna

# RFID1103C SERIES



### FEATURES:

- Robust construction for a high mechanical stability
- Qualified to AEC–Q200
- Suitable for pick and placeand AOI (Automatic Optical Inspection)
- Suitable for lead–free reflow soldering
- RoHS–compatible

### APPLICATIONS:

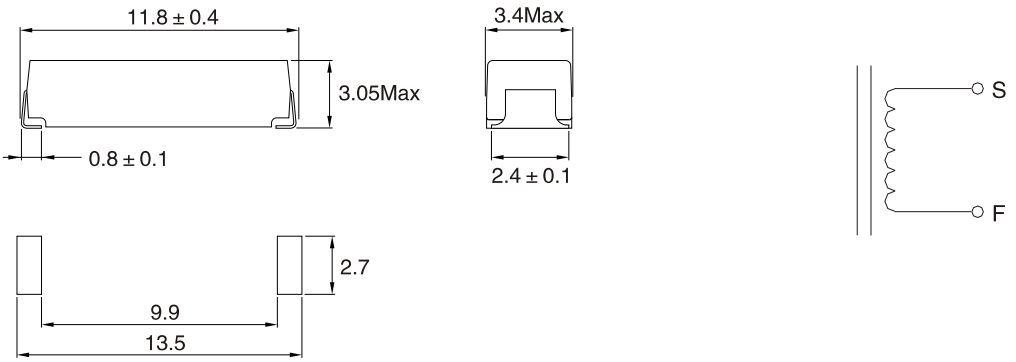
- Car access system
  Immobilizer
  PEPS (Passive Entry, Passive Start)
- TPMS (Tire Pressure Monitoring Systems)

## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (mH) | Test frequency (KHz) | Impedance ( Ω ) | Q |
|---|---|---|---|---|
| RFID1103C–192 | 1.97 ± 5% | 125 | 34 | 15 |
| RFID1103C–232 | 2.38 ± 5% | 125 | 39 | 15 |
| RFID1103C–332 | 3.3 ± 5% | 125 | 51 | 15 |
| RFID1103C–412 | 4.15 ± 5% | 125 | 74 | 17 |
| RFID1103C–502 | 4.99 ± 5% | 125 | 96 | 17 |
| RFID1103C–682 | 6.8 ± 5% | 125 | 112 | 17 |
| RFID1103C–712 | 7.1 ± 5% | 125 | 115 | 17 |
| RFID1103C–812 | 8.1 ± 5% | 125 | 123 | 17 |
| RFID1103C–902 | 9.0 ± 5% | 125 | 135 | 17 |
| RFID1103C–103 | 10.0 ± 5% | 125 | 145 | 17 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




NOTE:

- Test Frequency : 125KHz @25℃.
- Testing Instrument : HP4284A
- Ambient Temperature: –40℃ – +85℃.
- Storage Temperature: –40℃ – +105℃.

## Low–frequency receiving antenna

# SDTR0602 SERIES

### FEATURES:

- Robust construction for a high mechanical stability
- Suitable for lead–free reflow soldering
- High sensitivity for 20KHz,40KHz and 125KHz application
- RoHS–compatible

### APPLICATIONS:

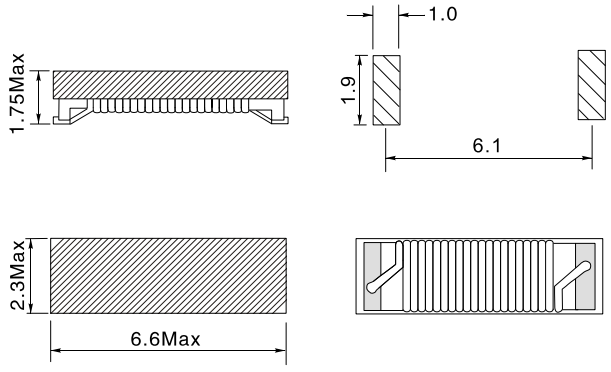
- Car access system
  Immobilizer
  PEPS (Passive Entry, Passive Start)
- TPMS (Tire Pressure Monitoring Systems)

## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (mH) | Working and Test frequency | SRF (KHz)Min | Q |
|---|---|---|---|---|
| SDTR0602A–232 | 2.38±5% | 125KHz | 1000 | 35 |
| SDTR0602A–282 | 2.89±5% | | 1000 | 30 |
| SDTR0602A–342 | 3.44±5% | | 700 | 25 |
| SDTR0602A–412 | 4.15±5% | | 600 | 20 |
| SDTR0602A–492 | 4.91±5% | | 600 | 25 |
| SDTR0602A–602 | 6.0±5% | | 450 | 23 |
| SDTR0602A–722 | 7.2±5% | | 450 | 20 |
| SDTR0602A–732 | 7.36±5% | | 400 | 23 |
| SDTR0602A–902 | 9.0±5% | | 300 | 20 |
| SDTR0602A–103 | 10.8±5% | | 300 | 20 |
| SDTR0602B–203 | 20±5% | 40KHz | 250 | 15 |
| SDTR0602B–333 | 33±5% | | 200 | 12 |
| SDTR0602B–473 | 47±5% | | 200 | 9 |
| SDTR0602B–563 | 56±5% | | 190 | 9 |
| SDTR0602B–673 | 67±5% | | 160 | 8 |
| SDTR0602B–823 | 82±5% | | 140 | 7 |
| SDTR0602B–124 | 120±5% | | 120 | 7 |
| SDTR0602B–184 | 184±5% | | 80 | 8 |
| SDTR0602C–333 | 33±5% | 20KHz | 200 | 10 |
| SDTR0602C–473 | 47±5% | | 200 | 8 |
| SDTR0602C–563 | 56±5% | | 190 | 7.5 |
| SDTR0602C–673 | 67±5% | | 160 | 6.5 |
| SDTR0602C–823 | 82±5% | | 140 | 5.6 |
| SDTR0602C–104 | 100±5% | | 120 | 5.0 |
| SDTR0602C–124 | 120±5% | | 100 | 4.5 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

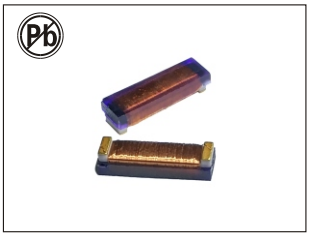
Dimensions(mm)




NOTE:
- Testing Instrument : HP4284A
- Ambient Temperature: –40℃ – +85℃.
- Storage Temperature: –40℃ – +105℃.

# Low–frequency receiving antenna

# SDTR1103 SERIES



## FEATURES:

- Robust construction for a high mechanical stability
- Qualified to AEC–Q200
- Suitable for pick and placeand AOI (Automatic Optical Inspection)
- Suitable for lead–free reflow soldering
- RoHS–compatible

## APPLICATIONS:

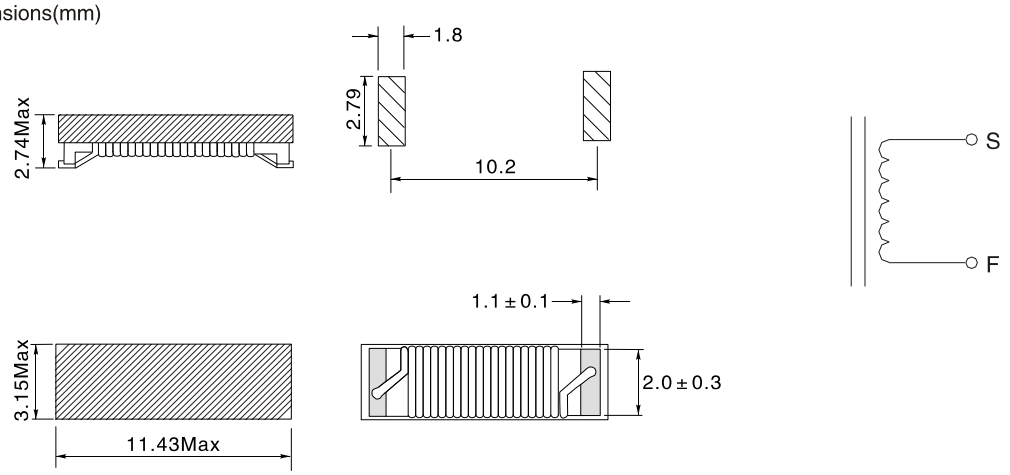
- Car access system
  Immobilizer
  PEPS (Passive Entry, Passive Start)
- TPMS (Tire Pressure Monitoring Systems)

## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (mH) | Test frequency (KHz) | Impedance ( Ω ) | Q |
|---|---|---|---|---|
| SDTR1103–192 | 1.97 ± 5% | 125 | 34 | 15 |
| SDTR1103–232 | 2.38 ± 5% | 125 | 39 | 15 |
| SDTR1103–332 | 3.3 ± 5% | 125 | 51 | 15 |
| SDTR1103–412 | 4.15 ± 5% | 125 | 74 | 17 |
| SDTR1103–502 | 4.99 ± 5% | 125 | 96 | 17 |
| SDTR1103–682 | 6.8 ± 5% | 125 | 112 | 17 |
| SDTR1103–712 | 7.1 ± 5% | 125 | 115 | 17 |
| SDTR1103–812 | 8.1 ± 5% | 125 | 123 | 17 |
| SDTR1103–902 | 9.0 ± 5% | 125 | 135 | 17 |
| SDTR1103–103 | 10.0 ± 5% | 125 | 145 | 17 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




NOTE:

- Test Frequency : 125KHz @25℃.
- Testing Instrument : HP4284A
- Ambient Temperature: –40℃ – +85℃.
- Storage Temperature: –40℃ – +105℃.

## Low-frequency receiving antenna

# SDTR 9018/9028 SERIES

### FEATURES:

- Ruggedized design to pass drop testing
- AEC-Q200 qualified
- Suitable for lead-free reflow soldering
- RoHS-compatible

### APPLICATIONS:

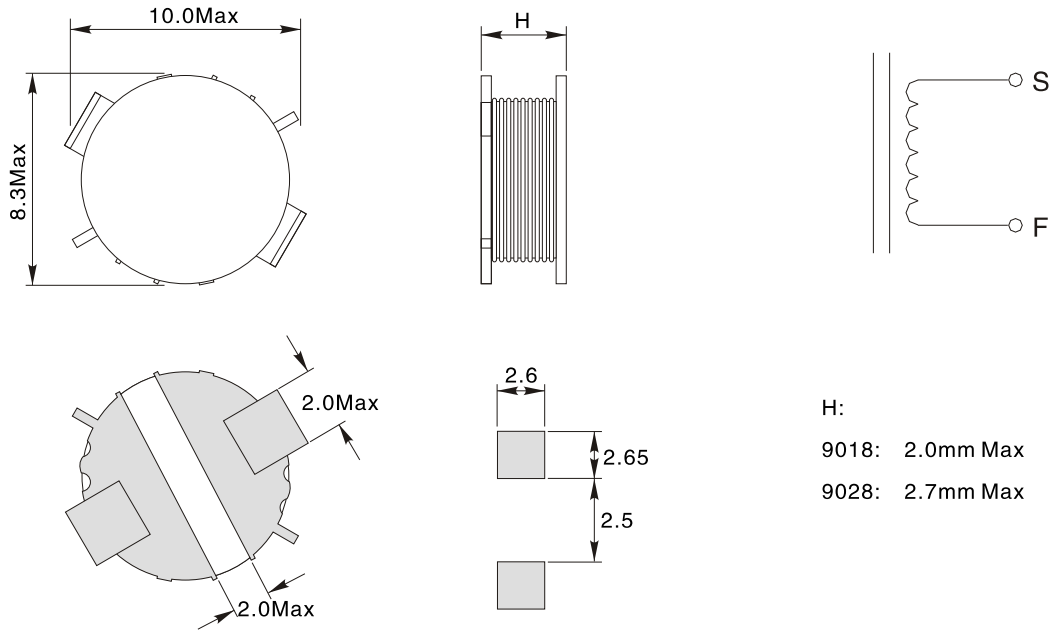
- Car access system PEPS (Passive Entry, Passive Start)
- RFID (radio-frequency identification) systems at 125 kHz

## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (mH) | Test frequency (KHz) | Impedance ( Ω ) | Q |
|---|---|---|---|---|
| SDTR9018/9028-192 | 1.97±5% | 125 | 20 | 30 |
| SDTR9018/9028-232 | 2.38±5% | 125 | 29 | 30 |
| SDTR9018/9028-332 | 3.3±5% | 125 | 30 | 30 |
| SDTR9018/9028-412 | 4.15±5% | 125 | 54 | 45 |
| SDTR9018/9028-502 | 4.99±5% | 125 | 76 | 45 |
| SDTR9018/9028-682 | 6.8±5% | 125 | 95 | 45 |
| SDTR9018/9028-712 | 7.1±5% | 125 | 97 | 45 |
| SDTR9018/9028-812 | 8.1±5% | 125 | 100 | 45 |
| SDTR9018/9028-902 | 9.0±5% | 125 | 110 | 45 |
| SDTR9018/9028-103 | 10.0±5% | 125 | 132 | 45 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




H:

9018: 2.0mm Max

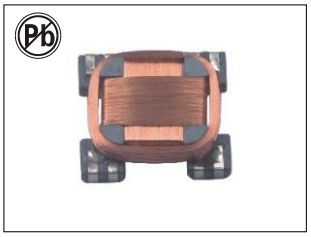
9028: 2.7mm Max

Note:

Induced current: 22A Max,Duty 30%

Operating temperature: -40℃ to +85℃

Storage temperature: -40℃ to +105℃



# SMD 3D Coil 12.6X12.6X2.9mm

# 3D1229 SERIES

## FEATURES:

Small solution of 3D coil designed to achieve a verygood electrical performance in the smallest dimensions.

## OPTIONS:

Packaging unit (parts/reel):1000

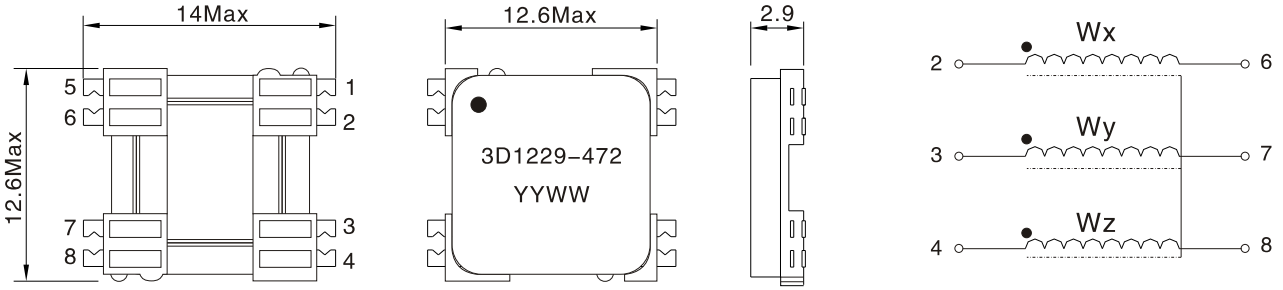
## COMMON APPLICATIONS:

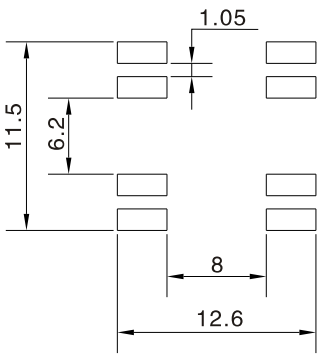
- Automotive
- Passive keyless entry and Keyless Go Systems
- RTPMS with wake up functions
- Industrial logistics and control
- Access control
- Tracking devices

## Electrical specifications

| Part No. | Lx,y,z mH (125KHz,1V) | Qx,y typ | SRFx,y (KHz,typ) | SRFz (KHz,typ) | RDCx,y (ΩMax) | RDCz (ΩMax) |
|---|---|---|---|---|---|---|
| 3D1229-242 | 2.38 | 23 | 500 | 1000 | 75 | 95 |
| 3D1229-252 | 2.47 | 23 | 500 | 800 | 75 | 95 |
| 3D1229-352 | 3.45 | 26 | 450 | 800 | 85 | 120 |
| 3D1229-402 | 4.05 | 26 | 400 | 800 | 98 | 138 |
| 3D1229-472 | 4.77 | 26 | 380 | 800 | 117 | 170 |
| 3D1229-492 | 4.91 | 26 | 350 | 750 | 120 | 175 |
| 3D1229-722 | 7.20 | 30 | 350 | 750 | 150 | 210 |
| 3D1229-103 | 10.0 | 25 | 250 | 550 | 165 | 280 |

## Dimensions




※ Sensitivity (S0) measured with Helmholtz Coils H=8.36 A/m@125kHz.

※ SRF: Self Resonant Frequency of the coil.

※ Wx/Wy/Wz means winding coil of X, Y and Z axis.

※ f20/f125/f134.2 means resonant frequency of 20kHz, 125kHz and 134.2kHz.

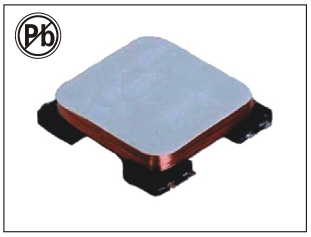
※ Test under the condition of relative humidity of 85%

※ Any other inductance value at LF or tighter tolerances can be provided. Also can be supplied differentinductance value in the different winding axis. Please contact our salesperson for any inquiries.

Soldering heat resistance:260℃ / 10sec

Operating temperature range:-40℃ to +125℃

Note:All specifications subject to change without notice.



# SMD 3D Coil 12.6X12.6X3.25mm

# 3D1232 SERIES

## FEATURES:

Small solution of 3D coil designed to achieve a verygood electrical performance in the smallest dimensions.

## OPTIONS:

Packaging unit (parts/reel):1000

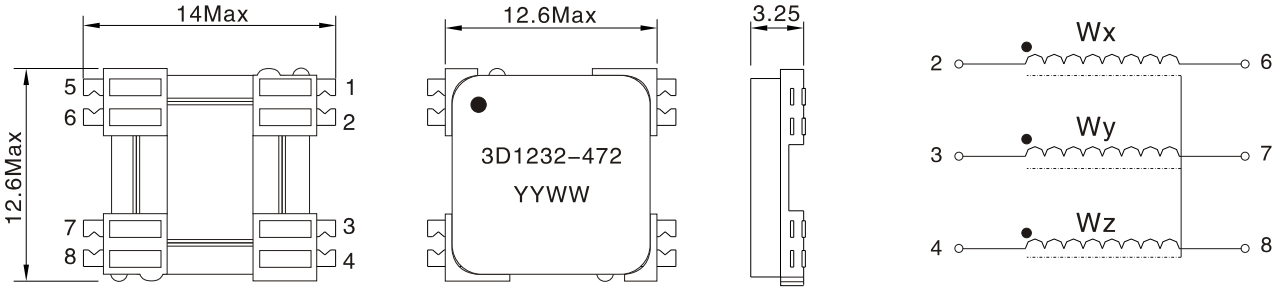
## COMMON APPLICATIONS:

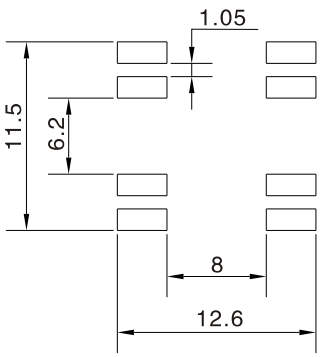
- Automotive
- Passive keyless entry and Keyless Go Systems
- RTPMS with wake up functions
- Industrial logistics and control
- Access control
- Tracking devices

## Electrical specifications

| Part No. | Lx,y,z mH (125KHz,1V) | Qx,y typ | SRFx,y (KHz,typ) | SRFz (KHz,typ) | RDCx,y (ΩMax) | RDCz (ΩMax) |
|---|---|---|---|---|---|---|
| 3D1232-242 | 2.38 | 23 | 500 | 1000 | 75 | 75 |
| 3D1232-252 | 2.47 | 23 | 500 | 800 | 75 | 75 |
| 3D1232-352 | 3.45 | 27 | 450 | 800 | 85 | 100 |
| 3D1232-402 | 4.05 | 27 | 400 | 800 | 98 | 98 |
| 3D1232-472 | 4.77 | 28 | 380 | 800 | 100 | 136 |
| 3D1232-492 | 4.91 | 27 | 350 | 750 | 105 | 140 |
| 3D1232-722 | 7.20 | 30 | 330 | 750 | 120 | 172 |
| 3D1232-103 | 10.0 | 25 | 250 | 550 | 165 | 258 |

## Dimensions




※ Sensitivity (S0) measured with Helmholtz Coils H=8.36 A/m@125kHz.

※ SRF: Self Resonant Frequency of the coil.

※ Wx/Wy/Wz means winding coil of X, Y and Z axis.

※ f20/f125/f134.2 means resonant frequency of 20kHz, 125kHz and 134.2kHz.

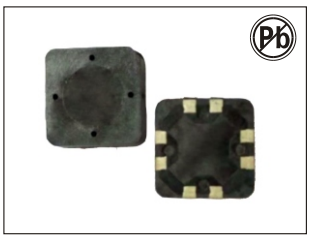
※ Test under the condition of relative humidity of 85%

※ Any other inductance value at LF or tighter tolerances can be provided. Also can be supplied differentinductance value in the different winding axis. Please contact our salesperson for any inquiries.

Soldering heat resistance:260℃ / 10sec

Operating temperature range:-40℃ to +125℃

Note:All specifications subject to change without notice.



# SMD 3D Coil 13.0X13.0X3.0mm

# 3D1313 SERIES

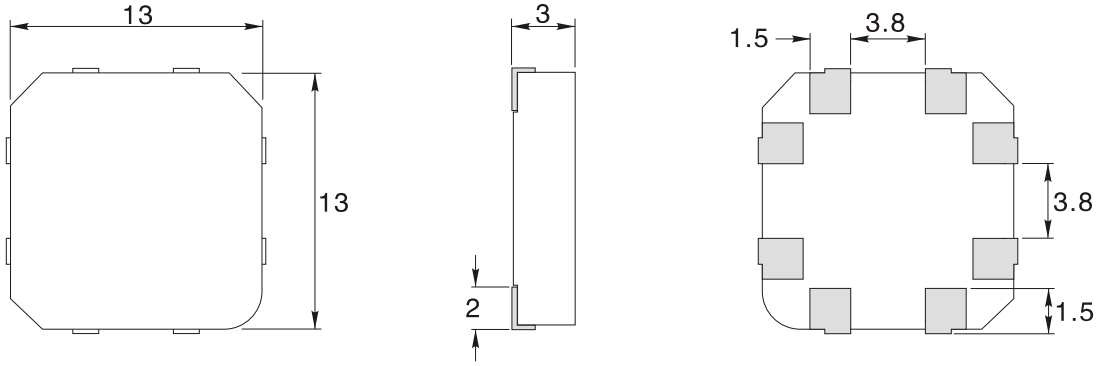
## FEATURES:

Small solution of 3D coil designed to achieve a verygood electrical performance in the smallest dimensions.
Applications:
– Automotive
– Passive keyless entry and Keyless Go Systems
– RTPMS with wake up functions
– Industrial logistics and control
– Access control
– Tracking devices
Keyless entry systems is a typical application for this coil, the isotropy is often sought in RF antenna. In transponder applications, this feature has been achieved by the combination of 3 single coils oriented in the 3 space axis with the aim of covering the maximum space orientation. This small size 3D coil offers the possibility of assembly in single component 3 coils with full functionality thus reducing cost saving PCB space and increasing the circuit reliability.

## Electrical specifications

| Part No. | Lx,y,z mH (125KHz,1V) | Qx,y typ | SRFx,y (KHz,typ) | SRFz (KHz,typ) | RDCx,y (ΩMax) | RDCz (ΩMax) |
|---|---|---|---|---|---|---|
| 3D1313–242J | 2.38 | 25 | 500 | 1000 | 75 | 95 |
| 3D1313–472J | 4.77 | 25 | 380 | 800 | 117 | 170 |

## Dimensions




※ Sensitivity (S0) measured with Helmholtz Coils H=8.36 A/m@125kHz.

※ SRF: Self Resonant Frequency of the coil.

※ Wx/Wy/Wz means winding coil of X, Y and Z axis.

※ f20/f125/f134.2 means resonant frequency of 20kHz, 125kHz and 134.2kHz.

※ Test under the condition of relative humidity of 85%

※ Any other inductance value at LF or tighter tolerances can be provided. Also can be supplied differentinductance value in the different winding axis. Please contact our salesperson for any inquiries.

Soldering heat resistance:260℃ / 10sec

Operating temperature range:–40℃ to +125℃

Note:All specifications subject to change without notice.

# RFID Low-profile Base-potted Emitter Antenna

# RFID7016A SERIES

## COMMON APPLCATIONS:

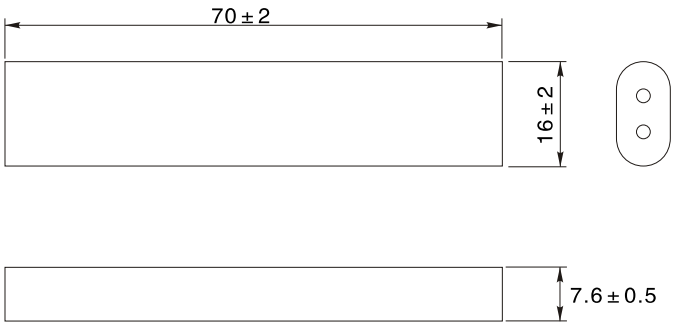
Fit in the car (pasted on the windshield surface, inside the instrument panel, in the trunk of the car, etc.) but should avoid to install on the metal body surface or in a small space surrounded by metal.The sensing distance varies depending on how well the car's internal shielding is

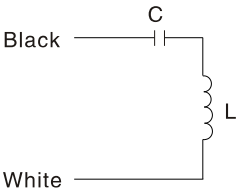
## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (μH) | Test frequency (KHz) | Capacitance (nF) | Q |
|---|---|---|---|---|
| RFID7016A-1 | 500±2% | 125 | 3.3 | 125 |
| RFID7016A-2 | 345±2% | 125 | 4.7 | 125 |
| RFID7016A-3 | 161±2% | 125 | 10.0 | 125 |
| RFID7016A-4 | 426±2% | 134.2 | 3.3 | 125 |
| RFID7016A-5 | 300±2% | 134.2 | 4.7 | 125 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




Wire: 2000mm±100mm

Note:

Resonant frequency: 125KHz±1.5%@25℃
125KHz±3%@-40℃ to +85℃
134.2KHz±1.5%@25℃
134.2KHz±3%@-40℃ to +85℃

Induced current: 2.8A Max,Duty 30%

Operating temperature: -40℃ to +85℃

Storage temperature: -40℃ to +105℃

In addition to the above mass production parameters, can be customized according to customer requirements, including different induction frequency, wire length, terminal type, etc

# RFID Low-profile Base-potted Emitter Antenna

# RFID8213A SERIES

## COMMON APPLCATIONS:

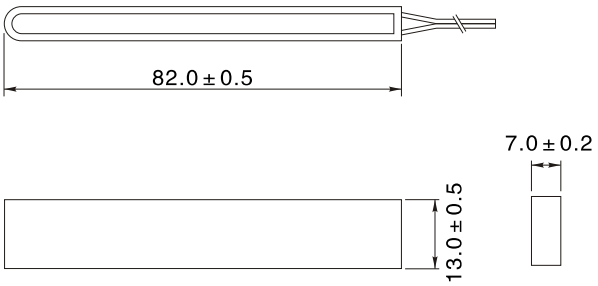
Fit in the car (pasted on the windshield surface, inside the instrument panel, in the trunk of the car, etc.) but should avoid to install on the metal body surface or in a small space surrounded by metal.The sensing distance varies depending on how well the car's internal shielding is

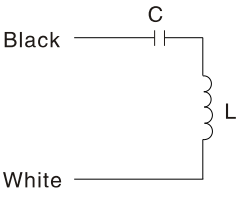
## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (μH) | Test frequency (KHz) | Capacitance (nF) | Q |
|---|---|---|---|---|
| RFID8213A-1 | 500±2% | 125 | 3.3 | 125 |
| RFID8213A-2 | 345±2% | 125 | 4.7 | 125 |
| RFID8213A-3 | 161±2% | 125 | 10.0 | 125 |
| RFID8213A-4 | 426±2% | 134.2 | 3.3 | 125 |
| RFID8213A-5 | 300±2% | 134.2 | 4.7 | 125 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




Wire: 2000mm±100mm

Note:

Resonant frequency: 125KHz±1.5%@25℃
125KHz±3%@-40℃ to +85℃
134.2KHz±1.5%@25℃
134.2KHz±3%@-40℃ to +85℃

Induced current: 2.8A Max,Duty 30%

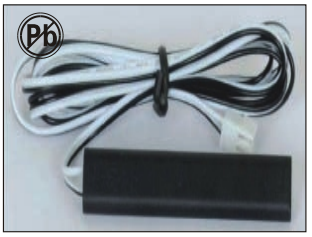
Operating temperature: -40℃ to +85℃

Storage temperature: -40℃ to +105℃

In addition to the above mass production parameters, can be customized according to customer requirements, including different induction frequency, wire length, terminal type, etc

# RFID Low-profile Base-potted Emitter Antenna

# RFID8516A SERIES



## COMMON APPLCATIONS:

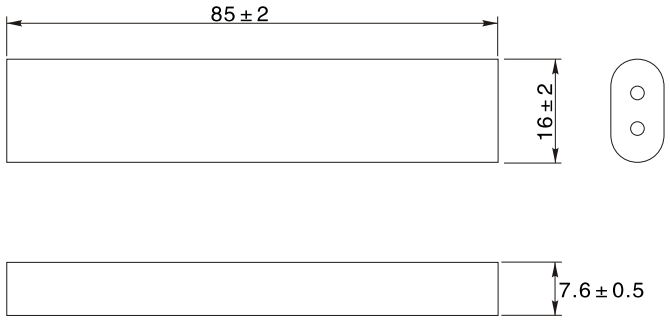
Fit in the car (pasted on the windshield surface, inside the instrument panel, in the trunk of the car, etc.) but should avoid to install on the metal body surface or in a small space surrounded by metal.The sensing distance varies depending on how well the car's internal shielding is

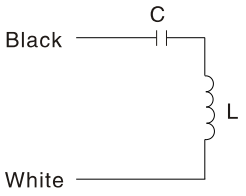
## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (μH) | Test frequency (KHz) | Capacitance (nF) | Q |
|---|---|---|---|---|
| RFID8516A-1 | 500±2% | 125 | 3.3 | 125 |
| RFID8516A-2 | 345±2% | 125 | 4.7 | 125 |
| RFID8516A-3 | 161±2% | 125 | 10.0 | 125 |
| RFID8516A-4 | 426±2% | 134.2 | 3.3 | 125 |
| RFID8516A-5 | 300±2% | 134.2 | 4.7 | 125 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




Wire: 2000mm±100mm

Note:

Resonant frequency: 125KHz±1.5%@25℃
125KHz±3%@-40℃ to +85℃
134.2KHz±1.5%@25℃
134.2KHz±3%@-40℃ to +85℃

Induced current: 2.8A Max,Duty 30%

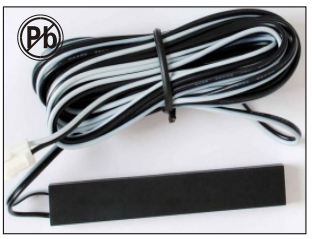
Operating temperature: -40℃ to +85℃

Storage temperature: -40℃ to +105℃

In addition to the above mass production parameters, can be customized according to customer requirements, including different induction frequency, wire length, terminal type, etc

# RFID Low-profile Base-potted Emitter Antenna

# RFID9514A SERIES



## COMMON APPLCATIONS:

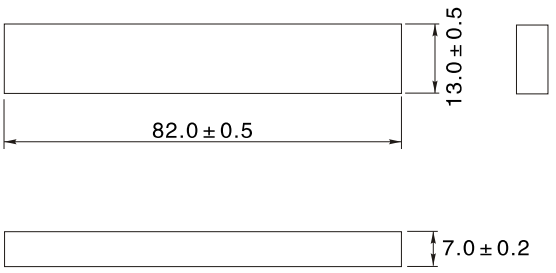
Fit in the car (pasted on the windshield surface, inside the instrument panel, in the trunk of the car, etc.) but should avoid to install on the metal body surface or in a small space surrounded by metal.The sensing distance varies depending on how well the car's internal shielding is

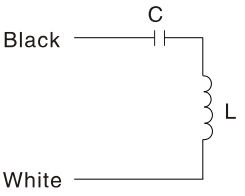
## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (μH) | Test frequency (KHz) | Capacitance (nF) | Q |
|---|---|---|---|---|
| RFID9514A-1 | 500±2% | 125 | 3.3 | 125 |
| RFID9514A-2 | 345±2% | 125 | 4.7 | 125 |
| RFID9514A-3 | 161±2% | 125 | 10.0 | 125 |
| RFID9514A-4 | 426±2% | 134.2 | 3.3 | 125 |
| RFID9514A-5 | 300±2% | 134.2 | 4.7 | 125 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




Wire: 2000mm±100mm

Note:

Resonant frequency: 125KHz±1.5%@25℃
125KHz±3%@-40℃ to +85℃
134.2KHz±1.5%@25℃
134.2KHz±3%@-40℃ to +85℃

Induced current: 2.8A Max,Duty 30%

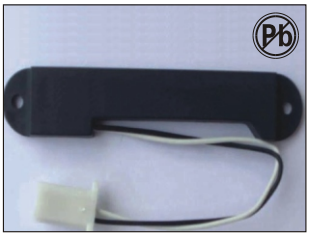
Operating temperature: -40℃ to +85℃

Storage temperature: -40℃ to +105℃

In addition to the above mass production parameters, can be customized according to customer requirements, including different induction frequency, wire length, terminal type, etc

# RFID Low-profile Base-potted Emitter Antenna

# RFID13020A SERIES



## COMMON APPLCATIONS:

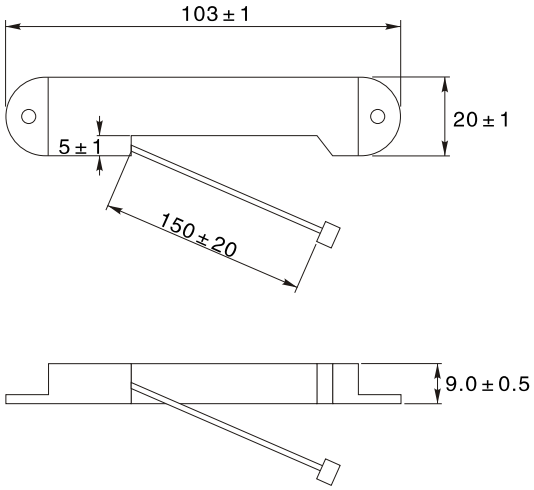
Fit in the car (pasted on the windshield surface, inside the instrument panel, in the trunk of the car, etc.) but should avoid to install on the metal body surface or in a small space surrounded by metal.The sensing distance varies depending on how well the car's internal shielding is

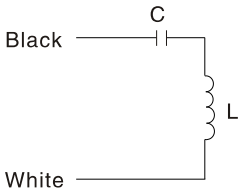
## ELECTRICAL CHARACTERISTICS:

| Part Number | Inductance (μH) | Test frequency (KHz) | Capacitance (nF) | Q |
|---|---|---|---|---|
| RFID10320A-1 | 500±2% | 125 | 3.3 | 125 |
| RFID10320A-2 | 345±2% | 125 | 4.7 | 125 |
| RFID10320A-3 | 161±2% | 125 | 10.0 | 125 |
| RFID10320A-4 | 426±2% | 134.2 | 3.3 | 125 |
| RFID10320A-5 | 300±2% | 134.2 | 4.7 | 125 |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




Note:

Resonant frequency: 125KHz±1.5%@25℃

125KHz±3%@-40℃ to +85℃

134.2KHz±1.5%@25℃

134.2KHz±3%@-40℃ to +85℃

Induced current: 2.8A Max,Duty 30%

Operating temperature: -40℃ to +85℃

Storage temperature: -40℃ to +105℃

In addition to the above mass production parameters, can be customized according to customer requirements, including different induction frequency, wire length, terminal type, etc

# Glass transponder

# GRFID SERIES

## FEATURES:

- High security for animal ID
- industry & logistics applications
- Flexible solution
- Available in several sizes and frequencies
- Write–protected memory
- Unique ID
- Password protected operation

## APPLICATIONS:

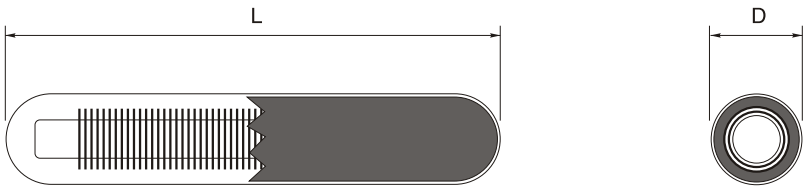
- Animal identification
- Pigeon race
- Waste management
- Access control
- Logistics/process control

## ELECTRICAL CHARACTERISTICS:

| | |
|---|---|
| Operating Frequency | 125KHz |
| Material | Biocompatible glass |
| Chip | Lexis ISO11784/85 FDX–B |
| Password | 32–bit |
| Unique ID | 32–bit factory programmed |

## TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)




Standard sizes available:

| Prat No. | 0208 | 0210 | 0212 | 0313 | 0323 | 0332 | 0434 |
|---|---|---|---|---|---|---|---|
| D | 2.12 | 2.12 | 2.12 | 3.15 | 3.85 | 3.85 | 4.0 |
| L | 8.0 | 10.0 | 12.0 | 13.3 | 23.0 | 32.0 | 34.0 |

Notes:

other chips version are available upon request

other sizes are available upon request