## Sumida

### Antenna < Transponder: RF-ID ( TX ) >

### Type: AS705A

#### Product Description

- ★70.5×13.9mm Max(L×W),5.3mm Max. Height.
- \* Operating Temperature:  $-40^{\circ}$ C ~  $+85^{\circ}$ C.

### Feature

- \* LF Transmitter antenna.
- \* Small size installation space can be saved.
- \* Match for TI & NXP IC, resonant frequency be pre-set to 125kHz,134kHz or customization.
- \* Meeting protection against water degree IPX4K of ISO20653 by adding water-proof part.
- \* Ideally used in keyless smart entry system.
- \* Over molding, with/ without harness and connector.
- \* RoHS Compliance.

 $13.6\pm 0.3$ 

### Mechanical dimensions ( unit: mm )







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### Schematic diagram



- L: Ferrite core coil inductance.
- C: Tuning internal capacitor.
- R: Copper resistance.

### Electrical Characteristics

Part number	Tuning capacitance	Load Q	Resonant frequency	Resonant current	Load resistance
AS705 -125A	332	60.1	125.0±1.5kHz	1.2App	4.7 Ω
AS705-125B	472	52.1	125.0±1.5kHz	2.5App	2.2Ω
AS705-125C	682	41.7	125.0±1.5kHz	2.8App	2.2Ω
AS705-125D	822	30.5	125.0±1.5kHz	2.4App	3.3Ω
AS705-125E	103	26.3	125.0±1.5kHz	2.6App	3.3Ω
AS705 -134A	332	65.2	134.2±1.5kHz	1.2App	4.7 Ω
AS705-134B	472	63.8	134.2±1.5kHz	2.5App	2.2Ω
AS705-134C	682	36.3	134.2±1.5kHz	2.9App	2.2Ω
AS705-134D	822	30.5	134.2±1.5kHz	2.5App	3.3Ω
AS705-134E	103	25.8	134.2±1.5kHz	2.6App	3.3Ω
AS705-20K	334	3.26	$20\pm1.5$ kHz	2.2App	3.3Ω

 $\bigstar$  It is possible for customer specification at harness length and connector form.

\* It is possible for other frequency.

### Packaging specification

- ★ Using plastic tray packaging.
- \* Outside carton dimension: 500mm X 300mm X 175mm.
- \* Packaging Q'ty: 120pcs/carton.