ANTENNA CONTENTS

Item No	Nominal Sensitivity	Quality factors	DC Resistance	Working frequency	Core size	Smallest packaging
RCD10600N392J-60K	3.9mH±5%@60KHz	Q≥120@60KHz	DCR≤5.0Ω	60KHz/40KHz	AR10x60mm/Ni	2K/MPQ
RCD08500N392J-60K	3.9mH±5%@60KHz	Q≥110@60KHz	DCR≤5.0Ω	60KHz/40KHz	AR8x50mm/Ni	2K/MPQ
RC310450M3O2J-77.5K	3.0mH±5%@60KHz	Q≥100@60KHz	DCR≤5.0Ω	77.5KHz	AP3x10x45mm/Mn	2K/MPQ
RC308500M152J-77.5K	1.55mH±5%@60KHz	Q≥110@60KHz	DCR≤5.0Ω	77.5KHz	AP3x8x50mm/Mn	2K/MPQ
RC404240M832J-60K	8.3mH±5%@60KHz	Q≥100@60KHz	DCR≤8.0Ω	60KHz/40KHz	AT3.55x3.75x23.6mm/Mn	3K/MPQ
RC404150M952J-60K	9.5mH±5%@60KHz	Q≥120@60KHz	DCR≤10.0Ω	60KHz/40KHz	AI3.5x4.0x15.0mm/Mn	3K/MPQ
RC34190M542J-60K	5.4mH±5%@60KHz	Q≥100@60KHz	DCR≤8.0Ω	60KHz/40KHz	AT3.3x3.8x18.5mm/Mn	3K/MPQ
RC23170M452J-60K	4.5mH±5%@60KHz	Q≥100@60KHz	DCR≤7.0Ω	60KHz/40KHz	AT1.5x2.5x17.5mm/Mn	3K/MPQ

1. RCC Antenna & Module

1.1 RCC radio clock antenna

Composed of a magnetic core + a coil, it is just an inductor.
The frequency-matching capacitor is installed on the customer's PCBA, the frequency needs to be tuned while using

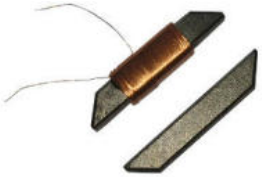
International standard type and frequency:
China/BPC-68.5KHz,
Japan/JJY-40&60KHz,
United States/WWVB-60KHz,
Germany/DCF-77.5KHz
UK/MSF-60KHz,
Switzerland/HBG-75KHz


RCD10600N392J-60K


RCD08500N392J-60K


RC310450M302J-77.5K


RC308500M152J-77.5K


RC404240M832J-60K


RC404150M952J-60K

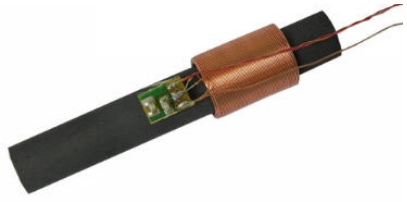

RC34190M542J-60K


RC23170M452J-60K

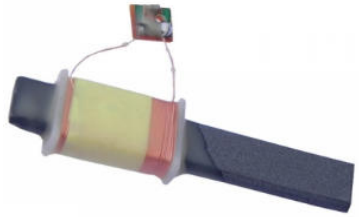
Item No	Frequency Range	Nominal Sensitivity	Quality factors	Matching capacitance	Core size	Smallest packaging
RFD10600N392J-60K	60KHz±300Hz	3.9mH±5%@60KHz	Q⩾120@60KHz	1.8nF/NPO/0805	AR10x60mm/Ni	648pcs/MPQ
RF308500M152J-77.5K	77.5KHz±300Hz	1.55mH±5%@60KHz	Q⩾110@60KHz	2.7nF/NPO/0805	AP3x8x50mm/Mn	756pcs/MPQ

1. RCC Antenna & Module

1.2 RCC frequency distribution antenna
Composed of magnetic core + coil + capacitor, tuned to a frequency value according to customer requirements, customers can directly solder on the PCBA to use.



RFD10600N392J-60K



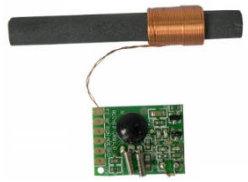
RF308500M152J-77.5K

Item No	Frequency Range	Sensitivity value	Operating Voltage	Quiescent Current	PCBA size	Smallest packaging
RMD08600M392J-60K-C02	60KHz±300Hz/40KHz±300Hz	29±2dB/30±2dB	1.1~5.0V	<1.0uA	17.8x23.8x1.0/FR4	756pcs/MPQ
RMD08600N392J-60K-V03	60KHz±300Hz	30±2dB	1.1~5.0V	<1.0uA	12x25x1.0/FR4	648pcs/MPQ
RM308500M152J-77.5K-C80	77.5KHz±300Hz	29±2dB	1.1~5.0V	<1.0uA	13.5x21.4x1.0/FR4	756pcs/MPQ
RMD10600N652J-60K-823	60KHz±300Hz/40KHz±300Hz	27±2dB/30±2dB	1.1~5.0V	<1.0uA	18x35x1.0/FR4	648pcs/MPQ

1. RCC Antenna & Module

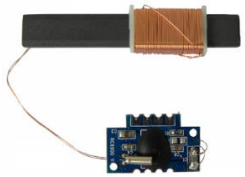
1.3 RCC receiving module

Radio wave antenna + radio wave receiving and decoding PCBA (IC),
this is quite close to a complete radio clock finished product,
the module completes the receiving and demodulating function,
and outputs a series of clock digital signals.
The main control IC (MCU) directly reads this number.
It can display the current time, which is mainly used for
radio-controlled clock products with display time.
The customer does not need to debug or allocate frequency,
but the IC (MCU) program must be available to display the time.



RMD08600M392J-60K-C02

RMD08600N392J-60K-V03



RM308500M152J-77.5K-C80

RMD10600N652J-60K-823

Item No	Resonant frequency	Quality factors	Equivalent impedance	Sensing distance	Matching capacitance	Dimensions
LF65M491J-125K-EF	125KHz±2%	Q≥180	Z≤8Ω	0.3~4.5M	3.3nF±5%	106.0x20.0x9.0mm
LF60M491J-125K-B1C	125KHz±2%	Q≥175	Z≤5Ω	0.3~4.0M	3.3nF±5%	99.0x15.5x8.5mm
LF84M241J-21.8K-DW	21.8KHz±2%	Q≥80	Z≤5Ω	0.2~5.0M	220nF±5%	116.0x19.8x10.0mm
LF90M491J-125K-DF	125KHz±2%	Q≥190	Z≤8Ω	0.2~6.0M	3.3nF±5%	116.0x19.8x10.0mm
LF50M351J-125K-AC	125KHz±2%	Q≥170	Z≤8Ω	0.2~3.0M	4.7nF±5%	70x13.5x7.0mm
LF65M491J-125K-BC	125KHz±2%	Q≥180	Z≤10Ω	0.2~4.0M	3.3nF±5%	90.0x15.5x8.0mm
LF75M351J-125K-CF	125KHz±2%	Q≥185	Z≤9Ω	0.2~5.0M	4.7nF±5%	100.0x19.5x10.0mm

2. PKE/RFID low frequency antenna

2.1 PKE antenna transmitter module

Mainly used in automobiles, Internet of Things,
access control, time and attendance systems,
the commonly used frequencies are (125KHz, 134.2KHz, 21.8KHz).

LF65M491J-125K-EF

LF60M491J-125K-B1C

LF84M241J-21.8K-DW

LF90M491J-125K-DF

LF50M351J-125K-AC

LF65M491J-125K-BC

LF75M351J-125K-CF

Item No	Nominal Sensitivity	Quality factors	DC Resistance	Core size	Smallest packaging
LF50M491J-125K-NN	500uH±5%@125KHz	Q≥170@125KHz	DCR≤0.5Ω	AP2.5x8.0x50.0mm	1000pcs/MPQ
LFA0M421J-125K-NN	420uH±5%@125KHz	Q≥160@125KHz	DCR≤0.5Ω	AP5.0x13.0x100.0mm	500pcs/MPQ
LF50M351J-125K-NN	345uH±5%@125KHz	Q≥180@125KHz	DCR≤0.5Ω	AP3.0x12.0x50.0mm	1000pcs/MPQ
LFA0N451J-134K-NN	450uH±5%@134KHz	Q≥150@134KHz	DCR≤0.5Ω	AR10.0x100.0mm	500pcs/MPQ

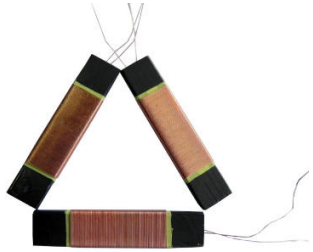
2. PKE/RFID low frequency antenna

2.2 PKE/RFID bare antenna

Mainly used in automobiles, Internet of Things,
access control, time and attendance systems,
the commonly used frequencies are (125KHz, 134.2KHz, 21.8KHz).

LF50M491J-125K-NN

LFA0M421J-125K-NN



LF50M351J-125K-NN

LFA0N451J-134K-NN

Item No	Nominal Sensitivity	Quality factors	DC Resistance	Self-resonant frequency	Dimensions	Smallest packaging
RF1103-722JSTFY71	7.2mH±5%@125KHz	Q≥33@125KHz	DCR≤90Ω	550KHz Max	11.0x3.0x3.0mm	2K/MPQ
RF1103-722JSTFY01	7.2mH±5%@125KHz	Q≥33@125KHz	DCR≤90Ω	550KHz Max	11.0x3.0x2.8mm	2K/MPQ
RF1103-402JSTFY71	4.0mH±5%@125KHz	Q≥38@125KHz	DCR≤50Ω	800KHz Max	11.0x3.0x3.0mm	2K/MPQ
RF1103-722JSTFY02	7.2mH±5%@125KHz	Q≥30@125KHz	DCR≤100Ω	500KHz Max	11.0x3.0x2.3mm	2K/MPQ
RF1103-722JSTFY72	7.2mH±5%@125KHz	Q≥30@125KHz	DCR≤100Ω	500KHz Max	11.0x3.0x2.5mm	2K/MPQ
RF1103-902JGT	9.0mH±5%@125KHz	Q≥30@125KHz	DCR≤110Ω	450KHz Max	11.0x3.0x3.3mm	2K/MPQ

2. PKE/RFID low frequency antenna

2.3 PKE-X/Y/Z single-axis antenna

Mainly used in automobiles, Internet of Things,
access control, time and attendance systems,
the commonly used frequencies are (125KHz, 134.2KHz, 21.8KHz).

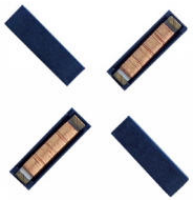
RF1103-722JSTFY71

RF1103-722JSTFY01

RF1103-402JSTFY71

RF1103-722JSTFY02

RF1103-722JSTFY72



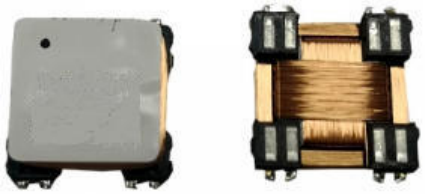
RF1103-902JGT

Item No	Nominal Sensitivity	Quality factors	DC Resistance	Self-resonant frequency	Dimensions	Smallest packaging
3D15-722J	3x7.2mH±5%@125KHz	Q⩾27@125KHz	DCR⩽120Ω/XY,⩽200Ω/Z	300KHz Max	17.5x16.5x4.2mm/MAX	600pcs/MPQ
3D12-722J	3x7.2mH±5%@125KHz	Q⩾16@125KHz	DCR⩽150Ω/XY,⩽230Ω/Z	300KHz Max	13.2x12.6x3.5mm/MAX	1000pcs/MPQ

2. PKE/RFID low frequency antenna

2.4 PKE-3D induction antenna

Mainly used in automobiles, Internet of Things,
access control, time and attendance systems,
the commonly used frequencies are (125KHz, 134.2KHz, 21.8KHz).



3D15-722J

3D12-722J

Item No	Resonant frequency	Quality factors	Equivalent impedance	Sensing distance	Matching capacitance	Dimensions
LF75M241J-21.8K-KW	21.8KHz±2%	Q≥80	Z≤5Ω	0.2~5.0M	220nF±5%	101.5x67.5x21.0mm
LF84M161J-21.8K-KW	21.8KHz±2%	Q≥80@21.8KHz	Z≤0.5Ω	0.2~5.0M	330nF±5%	134x24.8x22.0mm
LF80M201J-125K-KN	125KHz±2%	Q≥180	Z≤0.5Ω	0.2~5.0M	8.1nF±5%	88.0x48.0x10.0mm
LF65M491J-125K-EF	125KHz±2%	Q≥180	Z≤0.5Ω	0.2~4.0M	3.3nF±5%	106x20.0x9.0mm

Item No	Nominal Sensitivity	Quality factors	DC Resistance	Sensing distance	Matching capacitance	Dimensions
LF84M111J-125K-KN	106uH±5%@125KHz	Q≥170	DCR≤0.5Ω	0.2~5.0M	15nF±5%	107.5x38.3x13.3mm
LF84M401J-125K-KN	400uH±5%@125KHz	Q≥170	DCR≤0.5Ω	0.2~5.0M	3.3nF±5%	107.5x38.3x13.3mm

2. PKE/RFID low frequency antenna

2.5 PKE customized antenna for car

Mainly used in automobiles, Internet of Things,
access control, time and attendance systems,
the commonly used frequencies are (125KHz, 134.2KHz, 21.8KHz).

LF75M241J-21.8K-KW

LF84M161J-21.8K-KW

LF80M201J-125K-KN

LF65M491J-125K-EF

LF84M111J-125K-KN

LF84M401J-125K-KN

3. AM medium wave antenna

Product parameter:

Magnetic core materia:	Manganese zinc/nickel zinc
Magnetic core specifications:	AR/AP/R stick
Permeability:	300~2300±25%
Copper wire specifications:	Wire Covered Copper Wire/Enameled copper wire
Nominal Sensitivity:	220μH~470μH±10%
Quality factors:	Q>200
Working frequency:	520~1710KHz
Installation method:	Wax seal + bracket
Winding method:	Bee winding/single, multi-layer flat and dense winding
Operating temperature:	-20~55°C

Product features:

▪Wide frequency band, good selectivity;

▪High Q value, good sensitivity;

▪Small distributed capacitance;

Applicable field:

Mainly used in radios and car videos
Divided into paper tube type and non-paper tube type

Non-paper tube:

Paper tube: