



RDI Designs and Builds Products for a Dynamic and Connected World

Microphones, Speakers and Headphones
Standard and Custom Components and Assemblies

Speakers, Microphones, Headphones and Headsets Overview

- RDI has been manufacturing its own line Audio components for 38 years

- Speakers
- Microphones
- Headphones
- Headsets



- All of RDI's products are manufactured in our own facility in Shenzhen, China
 - In-house equipment
 - Total quality control of end products
 - Components to completed Headphones and Headsets
 - Strong audio experience



- Custom Audio products are a specialty and RDI can deliver from specs to product

General Purpose Speakers



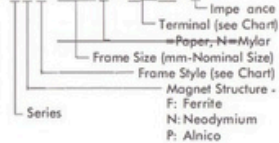
RP SERIES SPEAKER - with Alnico or Neodymium magnets

Model Number	Nominal Size (in)	Max Power W	Reson. Freq. Hz	Frequency Range Hz	Magnet Weight g (oz)	Size mm	Flux Density gauss	Diameter (in)	Depth (in)	Mounting Diameter (in)	Net Weight g (oz)
RP-383N	38 (1 1/2)	0.2	400	10-6,000	8.6 (0.28)	11.5x10	6,000	38 (1.5)	16.2 (0.64)	-	21 (0.74)
RP-405N	40 (1 5/8)	0.2	500	10-6,000	10 (0.35)	13x10	6,000	40 (1.57)	17.2 (0.68)	-	28 (0.99)
RP-415N	41 (1 3/4)	0.3	580	10-8,000	9.7 (0.34)	13.6x10	6,000	41 (1.61)	17 (0.67)	-	25 (0.88)
RP-438N	43 (1 3/4)	0.3	500	10-6,000	10 (0.35)	13x10	6,300	43 (1.7)	18 (0.71)	-	32 (1.13)
RP-504	50 (2)	0.2	500	10-5,000	10 (0.35)	13x10	6,300	50 (1.97)	18.8 (0.74)	-	39 (1.38)
RP-504N	50 (2)	0.5	500	10-7,000	10 (0.35)	13x10	6,300	50 (1.97)	18.8 (0.74)	-	39 (1.38)
RP-515	51 (2 1/4)	0.2	400	10-5,000	10 (0.35)	13x10	6,300	51 (2.01)	19.5 (0.77)	-	41 (1.45)
RP-515N	51 (2 1/4)	0.5	470	10-7,000	10 (0.35)	13x10	6,300	51 (2.01)	20 (0.79)	-	41 (1.45)
RP-666	66 (2 1/2)	0.3	350	10-5,000	10 (0.35)	13x10	6,300	66 (2.6)	21.4 (0.84)	-	47 (1.65)
RP-666N	66 (2 1/2)	1	450	10-7,000	10 (0.35)	13x10	6,300	66 (2.6)	21.4 (0.84)	-	47 (1.65)
RP-663	66 (2 1/2)	0.3	350	10-5,000	10 (0.35)	13x10	6,300	66 (2.6)	21.5 (0.85)	78(2.83)	51(1.79)
RP-664	66 (2 1/2)	0.4	350	10-5,000	11.7 (0.4)	13x12	6,500	66 (2.6)	26.5 (1.02)	78(2.83)	55 (1.93)
RP-701	70 (2 3/4)	0.5	350	10-5,000	11.7 (0.4)	13x12	6,500	70 (2.75)	22 (0.87)	-	48.5 (1.71)
RP-702	70 (2 3/4)	1	350	10-5,000	14.5 (0.53)	13x15	6,800	70 (2.75)	26.5 (1.04)	-	60 (2.1)
RP-772	77 (3)	1.5	300	10-5,000	11.7 (0.4)	13x12	6,500	77 (3.03)	25.7 (1)	-	51 (1.8)
RP-773	77 (3)	0.5	300	10-5,000	10 (0.35)	13x10	6,300	77 (3.03)	24 (0.94)	-	48 (1.7)
RP-771	77 (3)	1.5	250	10-8,000	14.5 (0.53)	13x15	6,800	77 (3.03)	32 (1.26)	84.5(3.23)	65.8(2.31)
RP-852	86(50x30x2)	0.5	300	10-5,000	11.7 (0.4)	13x12	6,500	75x50(2.95x1.97)	25 (0.98)	54x36(2.14x1.42)	58 (2.04)
RP-871	87 (3 1/2)	1	200	10-10,000	10 (0.35)	13x10	6,300	87 (3.43)	30 (1.18)	-	85 (2.97)
RP-873	87 (3 1/2)	1.5	200	10-10,000	14.5 (0.53)	13x15	6,800	87 (3.43)	34 (1.34)	100(3.94)	84 (2.99)
RP-922	92 (3 1/2)	2	200	10-8,000	14.5 (0.53)	13x15	6,800	92 (3.62)	33.5 (1.32)	-	79 (2.79)
RP-927	92 (3 1/2)	1	200	10-8,000	10 (0.35)	13x10	6,300	92 (3.62)	28 (1.10)	10.8(4.06)	71 (2.47)
RP-161	96x80(3 1/2x3 1/8)	0.5	300	10-5,000	11.7 (0.4)	13x12	6,500	96x80(3.8x3.15)	29.4 (1.16)	77x43(3.03x1.85)	50 (1.74)
RP-1009	100 (4)	2	180	10-10,000	16.9 (0.6)	14x15	6,800	100 (4.0)	38 (1.5)	-	103(3.78)
RP-1003	100 (4)	3	180	10-10,000	10 (0.35)	13x10	6,300	100 (4.0)	32 (1.26)	116.5(4.58)	90 (3.17)

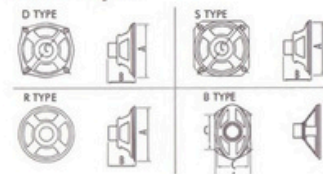
Ordering Information:

Order Guide:

Ex. RSR-773N-STi-2-8



Frame Style:

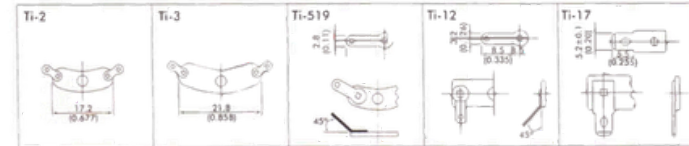


RF SERIES - with Ferrite Magnet

Model Number	Nominal Size (in)	Max Power W	Reson. Freq. Hz	Frequency Range Hz	Magnet Weight g (oz)	Size mm	Flux Density gauss	Diameter (in)	Depth (in)	Mounting Diameter (in)	Net Weight g (oz)
RF-401	40(1 5/8)	0.2	600	10-5,500	5.1 (0.18)	27x17x3	4,000	40 (1.6)	12.5 (0.49)	-	27 (0.96)
RF-504	50 (2)	0.2	500	10-5,000	16.1(0.57)	32x18x8	6,300	50 (1.97)	17.5 (0.69)	-	50(1.75)
RF-515	51(2 1/4)	0.2	400	10-5,000	16.1(0.57)	32x18x8	6,300	51 (2.01)	18.4 (0.72)	-	52(1.82)
RF-666	66(2 1/2)	0.3	350	10-5,000	16.1(0.57)	32x18x8	6,300	66 (2.6)	20 (0.78)	-	56.7 (2)
RF-663	66(2 1/2)	0.3	350	10-5,000	16.1(0.57)	32x18x8	6,300	66 (2.6)	21.5 (0.84)	-	64(2.24)
RF-701	70(2 3/4)	0.5	350	10-5,000	18 (0.65)	32x18x7	6,500	70 (2.75)	20.5 (0.80)	72(2.83)	63.5(2.24)
RF-705N	70(2 3/4)	1	400	10-7,000	16.1(0.57)	32x18x8	6,300	70 (2.75)	21.5 (0.84)	-	72.5(2.55)
RF-772	77 (3)	1	280	10-5,000	18 (0.65)	32x18x7	6,500	77 (3.03)	23.5 (0.93)	-	57.5(2.02)
RF-773N	77 (3)	2	350	10-8,000	16.1(0.57)	32x18x8	6,300	77 (3.03)	22.3 (0.88)	-	58(2.05)
RF-777	77 (3)	2	200	10-10,000	18 (0.65)	32x18x7	6,500	77 (3.03)	25.3 (1)	84.5(3.33)	72.5(2.56)
RF-871	87(3 1/2)	1	200	10-10,000	18 (0.65)	32x18x7	6,500	87 (3.43)	29.5 (1.16)	-	80 (2.8)
RF-872	87(3 1/2)	1	200	10-10,000	18 (0.65)	32x18x7	6,500	87 (3.43)	29.5 (1.16)	100(3.94)	82(2.88)
RF-921	92(3 1/2)	1	200	10-10,000	16.1(0.57)	32x18x8	6,300	92 (3.62)	26.5 (1.04)	-	75(2.65)
RF-925	92(3 1/2)	1	200	10-10,000	18 (0.65)	32x18x7	6,500	92 (3.62)	28.5 (1.12)	103(4.06)	84(2.95)
RF-1001	100 (4)	2	180	10-10,000	37 (1.31)	45x22x6	7,600	100 (4.0)	33 (1.3)	-	159(5.6)
RF-1003	100 (4)	2.5	180	10-10,000	48 (1.7)	45x22x6	7,600	100 (4.0)	35 (1.38)	116.5(4.59)	173(6.09)
RF-1201	120 (5)	5	140	10-10,000	54 (1.94)	45x22x6	8,000	117 (4.61)	42.5 (1.67)	119(4.69)	190(6.69)
RF-1207	120 (5)	7	100	10-10,000	81 (2.8)	60x32x8	8,000	117 (4.61)	43 (1.69)	119(4.69)	320(12.5)
RF-1301	130(5 1/4)	6	110	10-10,000	81 (2.8)	60x32x8	8,000	134.5(5.3)	47.8 (1.88)	138(5.43)	320(12.5)
RF-1403	140(6 1/2)	8	100	10-10,000	81 (2.8)	60x32x8	8,000	154.5(6.08)	58 (2.28)	154.5(6.14)	378(13.2)
RF-1406	140(6 1/2)	5	100	10-10,000	52 (1.8)	50x25x7	7,500	154.5(6.08)	53 (2.08)	154.5(6.14)	240(8.54)
RF-2001	200 (8)	10	90	10-8,000	81 (2.8)	60x32x8	8,000	205 (8.07)	65.6 (2.58)	194(7.64)	470(16.57)

Notes: "N" denotes mylar cone

Terminal:



Low Profile Speakers



* Custom wire harness and connectors available

RS Series - Low Profile - Samarium Cobalt or Neodymium magnets

Model Number	Nominal Size mm (inch)	Max Power W	Reson. Freq. Hz	Frequency Range Hz	Magnet Weight g (oz)	Size mm	Flux Density gauss	Diameter (A) mm (inch)	Depth (B) mm (inch)	Mounting Diameter (C) mm (inch)	Net Weight g (oz)
RSR-22SA	22 (1)	0.2	600	F ₀ -12,000	1 (0.035)	9.5x1.5	5,500	22 (0.91)	4.9 (0.19)	-	4 (0.14)
RSR-26SA	26 (1)	0.3	550	F ₀ -12,000	1 (0.035)	9.5x1.5	4,000	26 (1.02)	5.3 (0.21)	-	5.5 (0.19)
RSR-28RSB**	28 (1)	0.2	550	F ₀ -10,000	1 (0.035)	9.5x1.5	4,000	28 (1.10)	4.9 (0.17)	-	5.5 (0.19)
RSR-28RSB	28 (1)	0.2	500	F ₀ -15,000	1.5 (0.05)	12.5x1.5	4,500	28 (1.10)	4.4 (0.18)	30 (1.22)	8 (0.28)
RSR-30SA	30 (1 1/4)	0.2	500	F ₀ -15,000	1 (0.035)	9.5x1.5	4,000	30 (1.18)	5.7 (0.22)	-	6.5 (0.23)
RSR-32F	32 (1 1/4)	0.2	500	F ₀ -15,000	4.5 (0.16)	21x17x3	4,500	32 (1.25)	11.0 (0.44)	-	17 (0.60)
RSR-36SA	36 (1 1/2)	0.5	320	F ₀ -10,000	1.5 (0.05)	12.5x1.5	4,000	36 (1.42)	4.2 (0.165)	-	12 (0.42)
RSR-38SA	38 (1 1/2)	0.2	500	F ₀ -10,000	1.5 (0.05)	12.5x1.5	4,000	38 (1.50)	8.3 (0.33)	-	10.5 (0.37)
RSR-40SB	40 (1 5/8)	0.2	600	F ₀ -15,000	1 (0.035)	9.5x1.5	5,500	40 (1.57)	6.7 (0.26)	-	8.5 (0.30)
RSR-40RSB**	40 (1 5/8)	1.0	600	F ₀ -15,000	1 (0.035)	9.5x1.5	5,500	40 (1.57)	6.0 (0.24)	-	12 (0.42)
RSR-40SB*	40 (1 5/8)	1.0	420	F ₀ -20,000	5.2 (0.18)	27x17x3	4,500	39.5 (1.56)	9.1 (0.36)	-	16 (0.56)
RSR-45SA	45 (1 3/4)	0.2	400	F ₀ -10,000	1.5 (0.05)	12.5x1.5	5,000	45 (1.77)	5.5 (0.217)	-	11 (0.40)
RSS-945SA	45 (1 3/4)	0.3	500	F ₀ -4,000	1.5 (0.05)	12.5x1.5	10,000	45 (1.77)	8.5 (0.333)	60x2.36	12 (0.42)
RSR-50SA	50 (2)	0.5	400	F ₀ -20,000	1.5 (0.05)	12.5x1.5	6,500	50 (2)	8.5 (0.333)	-	13 (0.45)
RSR-57SA	57 (2 1/4)	0.5	400	F ₀ -10,000	1.5 (0.05)	12.5x1.5	6,000	57 (2 1/4)	10.3 (0.41)	-	15 (0.53)

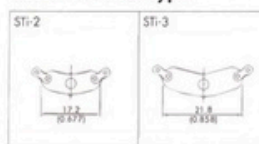
** Black Mylar
* Black Frame & Black Mylar

Order Guide:

Ex. RSR-773N-STI-2-8

Series
Frame Size (mm-Nominal Size)
Magnet Structure -
S: Samarium Cobalt
N: Neodymium
Terminal (see Chart)
= Paper, N= Mylar
Tripe once

Solder Terminal Type:



SUPER THIN SPEAKERS

MYLAR CONE, COBALT MAGNET, METAL FRAME



Part No.	DIA.	Magnet Size	Coil Imp.	Input Power	Freq. Response
12M36B	36mm	12.5x1.5mm	8 ohm	0.1W	F ₀ -8000Hz
12M40B	40mm	12.5x1.5mm	8 ohm	0.1W	F ₀ -8000Hz
12M45B	45mm	12.5x1.5mm	8 ohm	0.1W	F ₀ -5500Hz
12M50B	50mm	12.5x1.5mm	8 ohm	0.2W	F ₀ -6000Hz
12M57B	57mm	12.5x1.5mm	8 ohm	0.2W	F ₀ -7500Hz

PC BOARD MOUNTED MINIATURE SPEAKERS

ALL MODELS ARE COVERED UNDER TAIWAN PATENT NO. 65728

OG SERIES: ROUND SHAPE, METAL FRAME

MODEL	A	B	C	D	E	F
OG38PC	26.4	21.8	19.6	38	13.7	10.9
OG50PC	33	28.0	19.1	50	14.0	11.0

RC SERIES: RECTANGULAR SHAPE, PLASTIC FRAME

MODEL	A	B	C	D	E	F	G
35RCSPC	32	35	30.3	26.6	37.4	24.8	9.3
43RCSPC1	40	43	40.3	32.6	45.4	30.8	12.3
43RCSPC2	40	43	40.3	32.6	45.4	30.8	12.3

Model No.	Shape	Cone Type	Power		Nominal Diameter	Resonant Frequency	Frequency Range	Total Height	Total Weight
			Nominal	Max.					
OG38PCMC5	Round	Mylar	0.3	0.5	38 mm	750 Hz	F ₀ 5000 Hz	8.7 mm	12 gr
OG50PCMC5	Round	Mylar	0.3	0.5	50 mm	450 Hz	F ₀ 5000 Hz	9.2 mm	16 gr
27 RML	Round	Mylar	0.1	0.15	27 mm	550 Hz	F ₀ 4500 Hz	9.5 mm	5 gr
35RCSPC	Rectangular	Mylar	0.2	0.3	32x35	800 Hz	F ₀ 3500 Hz	5 mm	5.6 gr
43RCSPC1	Rectangular	Mylar	0.2	0.3	40 x 43	580 Hz	F ₀ 3500 Hz	5 mm	7.8 gr
43RCSPC2	Rectangular	Mylar	0.2	0.3	40 x 43	600 Hz	F ₀ 3500 Hz	5 mm	7.2 gr

NOTES: (1) Standard Models are 8 OHMS Impedance. Other values are available upon request. Custom speaker assemblies also available upon request.
(2) Total height is measured without the PC board pins.



Miniature Speakers

MINIATURE SPEAKERS

MICRO AND SUPER THIN SPEAKERS

MYLAR CONE, FERRITE MAGNET, PLASTIC FRAME



Part No.	DIA.	Magnet Size	Coil Imp.	Input Power	Freq. Response
F09P138	13mm	9.0x1.5mm	8 ohm	0.1W	F _c -3500Hz
F09P238	23mm	9.0x1.5mm	8 ohm	0.1W	F _c -3500Hz
F12P278	27mm	12x4mm	8 ohm	0.1W	F _c -3500Hz
F12P298	29mm	12x4mm	8 ohm	0.1W	F _c -3500Hz
F16P278	27mm	16x7x5mm	8 ohm	0.1W	F _c -3500Hz
F16P298	29mm	16x7x5mm	8 ohm	0.1W	F _c -3500Hz
F20P298	29mm	20x7x5mm	8 ohm	0.1W	F _c -3500Hz
F27P408	40mm	27x17x4.5mm	8 ohm	0.1W	F _c -4000Hz

PN: 20R04



Housing: ABS Plastic

PN: 28R04



Housing: ABS Plastic

PN: 36R04



Housing: ABS Plastic

PN: 36R045F



Housing: Iron

PN: 23RPC01
PC Board Mount



Housing: ABS Plastic

NOTES:

(1) Frequency Response Curves are plotted with 0.1 watt input, sine wave, at 10 cm distance.

(2) Impedance can be varied per customer requirements.

(3) Dimensions are in mm.

PN: 20R0332



Housing: ABS Plastic

PN: 20R0364



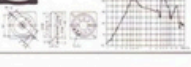
Housing: ABS Plastic

PN: 32S045
Square with Mounting Holes



Housing: ABS Plastic

PN: 40S045
Square with Mounting Hole



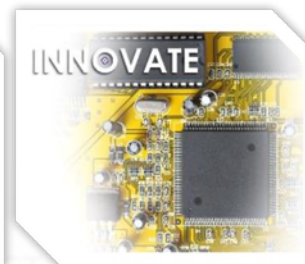
Housing: ABS Plastic

SPECIFICATIONS

Model No.	DIA. mm	Height mm	Impedance ohms	Rated Power Watt	Max. Power Watt	Sound Level dB/W/M	Resonant Freq. F0-Hz	Frequency Range F0-Hz	Weight grams
20R04	20	4	8 ± 15%	0.1	0.2	78 ± 3	750 ± 150	5000	1.7
28R04	28	3.8	8 ± 15%	0.1	0.2	80 ± 3	550 ± 150	5000	2.9
36R04	36	3.8	8 ± 15%	0.1	0.2	82 ± 3	550 ± 150	5000	4.8
36R045F	36	4.5	8 ± 15%	0.1	0.2	85 ± 3	500 ± 150	5000	7.8
23RPC01	23	10	8 ± 15%	0.1	0.2	89 ± 3	800 ± 150	3500	3.6
20R0332	20	3	32 ± 15%	0.1	0.2	76 ± 3	950 ± 150	5000	1.5
20R0364	20	3	64 ± 15%	0.1	0.2	75 ± 3	850 ± 150	5000	1.5

RDI Summary

- RDI has a rich history of New Product Development, product optimization, manufacturing and logistics management.
- Based in New York coupled with wholly owned China based manufacturing and global logistics ensures round the clock development and on time delivery.
- Materials Management together with RDI developed electromechanical components ensures cost goals are met with continuing cost optimizations.
- Broad market focus and development expertise enable RDI to add value throughout the product development lifecycle.
- Global certifications and well managed processes result in the highest quality results.



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