

RECEIVER PORTFOLIO AND NAMING



Receivers have been developed and manufactured by Knowles for well over 50 years. This has resulted in a very broad range products with form factors and features for many different applications. This document shows all the available series to help the user identify the one(s) that might best suit their application.

Series Overview

The receiver series is designated by the model number prefix, e.g. model number RAB-32581-000 is in the RAB series. Before 2015 the series were assigned a sequential two letter designation which was added to indicate how the base receiver was modified e.g. FED is a ferrofluid damped version of ED.

After 2015 the series start with an R to signify receiver, followed by a sequential two letter designation. The middle letter indicates whether the receiver is a dual (D) or dual diaphragm (L) version. This is summarized in Table 1 for commonly used designations.

Table 1 – Commonly used Series designations

Series	Receiver type	Creation date
**	Any	before 2015
D**	Dual	
WB**	Wideband	
HO**	High Output	
F**	Ferrofluid damped	
RA*	Single	2015 -
RD*	Dual	
RL*	Dual Diaphragm	

* - wildcard

The prefix RVA is used for models where receivers are built into complex assemblies e.g. RIC (Receiver in Canal) assemblies.

The following tables show the available series for the different receiver types. A table showing them all is provided in the Appendix.



Single Receivers

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
RAH	Low		3.00	3.00	2.00	18	x	RDH					
RAA			5.08	2.59	1.40	18	x	RDA					
FK			5.00	2.73	1.93	26	x	DFK		FFK	RAP	WBFK	x
WBFK			Wideband FK	5.00	2.73	1.93	26	x	DWFK				
FFK			FK + ferrofluid damping	5.00	2.73	1.93	26	x			x		
RAN			Automated assembly version of WBFK	5.11	2.83	2.03	29	x	RDN			x	
RAU			Wideband RAN	5.11	2.83	2.03	29	x	RDU				
RAP			Automated assembly version of FK	5.11	2.83	2.03	29	x	RDP			x	
FH				5.09	2.80	2.59	37	x	FJ		FFH		
FFH			FH + ferrofluid damping	5.09	2.80	2.59	37	x			x		
RAF	Medium	RAB but with terminals on base	5.15	2.96	2.58	39	x						
RAB			5.15	2.96	2.58	39	x	RDB			RAQ	x	
RAE			RAB but with stainless steel case	5.15	2.96	2.58	39	x					
RAQ			Automated assembly version of RAB	5.32	3.06	2.69	44	x	RDQ	RLQ		x	
HC			High output FC	5.16	3.51	3.00	54	x			FHC		WBHC
WBHC			Wideband HC	5.16	3.51	3.00	54	x				x	
FHC			HC + ferrofluid damping	5.16	3.51	3.00	54	x			x		
EH				5.19	3.55	3.00	55	x			FEH		
FC				5.18	3.55	3.00	55	x			FFC		
FFC			FC + ferrofluid damping	5.18	3.55	3.00	55	x			x		
FEH		EH + ferrofluid damping	5.19	3.55	3.00	55	x			x			
ED	High		6.29	4.28	2.97	80	x	EJ		FED			
FED			ED + ferrofluid damping	6.32	4.31	2.97	81	x			x		
TEC				7.87	4.09	2.79	90	x	DTEC		FTEC		
HOTEC			High Output TEC	7.87	4.09	2.79	90	x	HODTEC				
RAI				7.87	4.09	2.79	90	x	RDI	RLI			x
FTEC			TEC + ferrofluid damping	7.87	4.09	2.79	90	x			x		
EF	Super		7.87	5.59	4.01	176	x			FEF			
BK				7.87	5.59	4.01	176	x					
FEF			EF + ferrofluid damping	7.87	5.59	4.01	176	x			x		
CI		Ultra		9.47	7.18	4.10	279	x					

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
RDA	Low	Dual RAA	5.08	2.59	2.79	37	RAA	x					
RDH	Medium	Dual RAH	3.00	3.00	4.14	37	RAH	x					
RDJ				5.94	2.54	3.10	47		x				
GD				5.99	3.10	2.59	48		x				
GD30			GD but with 0.007" thick metal case	6.10	3.20	2.69	53		x				
GD40			GD but with 0.007" thick stainless steel case	6.10	3.20	2.69	53		x				
TWFK			Two Way (woofer/tweeter) hi-fi FK	5.00	2.73	3.86	53		x				
SWFK			Super Wideband FK: pair of tweeter FK	5.00	2.73	3.86	53		x				x
DFK			Dual FK	5.00	2.73	3.86	53	FK	x				
DWFK			Dual Wideband FK	5.00	2.73	3.86	53	WBFK	x				x
RDD			Dual RAD	5.00	2.73	3.86	53	RAD	x				
RDP		Dual RAP	5.11	2.83	4.06	59	RAP	x					
RDN		Dual RAN	5.11	2.83	4.06	59	RAN	x					
FJ	High	Dual FH	5.08	2.79	5.18	73	FH	x					
RDB			Dual RAB	5.15	2.96	5.16	79	RAB	x				
RDL				6.09	4.31	3.20	84		x				
GR				6.10	3.20	4.32	84		x				
EJ	Super	Dual ED	6.30	4.29	6.17	167	ED	x					
HODTEC			Dual HOTEC	7.87	4.09	5.23	168	HOTEC	x				
DTECLP			Low profile DTEC	7.87	4.09	5.23	168		x				
RDI			Dual RAI	7.87	4.09	5.23	168	RAI	x			x	
DTEC			Dual TEC	7.87	4.09	5.59	180	TEC	x				
HODVTEC			Dual HOVTEC	7.87	4.09	5.59	180		x				



Dual Diaphragm Receivers

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
RLQ	Medium	Dual diaphragm version of RAQ	5.32	3.06	3.33	54	RAQ		x		x		
RLI	Super	Dual diaphragm version of RAI	7.87	4.09	3.56	115	RAI		x				

Ferrofluid damped Receivers

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
FFK	Low	FK + ferrofluid damping	5.00	2.73	1.93	26	x			x			
FFH		FH + ferrofluid damping	5.09	2.80	2.59	37	x			x			
FHC	Medium	HC + ferrofluid damping	5.16	3.51	3.00	54	x			x			
FFC		FC + ferrofluid damping	5.18	3.55	3.00	55	x			x			
FEH		EH + ferrofluid damping	5.19	3.55	3.00	55	x			x			
FED	High	ED + ferrofluid damping	6.32	4.31	2.97	81	x			x			
FTEC		TEC + ferrofluid damping	7.87	4.09	2.79	90	x			x			
FEF	Super	EF + ferrofluid damping	7.87	5.59	4.01	176	x			x			

Automated Assembly Series

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
RAN	Low	Automated assembly version of WBFK	5.11	2.83	2.03	29	x	RDN			x		
RAP		Automated assembly version of FK	5.11	2.83	2.03	29	x	RDP			x		
RAQ	Medium	Automated assembly version of RAB	5.32	3.06	2.69	44	x	RDQ	RLQ		x		
RLQ		Dual diaphragm version of RAQ	5.32	3.06	3.33	54	RAQ		x		x		

Wideband Receivers

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
WBFK	Low	Wideband FK	5.00	2.73	1.93	26	x	DWFK			RAN	x	
SWFK	Medium	Super Wideband FK: pair of tweeter FK	5.00	2.73	3.86	53		x				x	
DWFK		Dual Wideband FK	5.00	2.73	3.86	53	WBFK	x				x	
WBHC		Wideband HC	5.16	3.51	3.00	54	x					x	



Enhanced High Frequency Receivers

High frequency enhanced versions of these models provide additional output at ~3-6kHz.

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
FK	Low		5.00	2.73	1.93	26	x	DFK		FFK	RAP	WBFK	x
RAB	Medium		5.15	2.96	2.58	39	x	RDB			RAQ		x
RAI	High		7.87	4.09	2.79	90	x	RDI	RLI				x
RDI	Super	Dual RAI	7.87	4.09	5.23	168	RAI	x					x

Revision History

Revision	Description	ECR	Date
A	Initial Release	P10006073	02-22-22



Appendix

The following tables show all available series with increasing volume.

Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
RAH	Low		3.00	3.00	2.00	18	x	RDH					
RAA			5.08	2.59	1.40	18	x	RDA					
FK			5.00	2.73	1.93	26	x	DFK		FFK	RAP	WBFK	x
WBFK		Wideband FK	5.00	2.73	1.93	26	x	DWFK			RAN	x	
FFK		FK + ferrofluid damping	5.00	2.73	1.93	26	x			x			
RAN		Automated assembly version of WBFK	5.11	2.83	2.03	29	x	RDN			x		
RAU		Wideband RAN	5.11	2.83	2.03	29	x	RDU					
RAP		Automated assembly version of FK	5.11	2.83	2.03	29	x	RDP			x		
RDA		Dual RAA	5.08	2.59	2.79	37	RAA	x					
FH			5.09	2.80	2.59	37	x	FJ		FFH			
FFH		FH + ferrofluid damping	5.09	2.80	2.59	37	x			x			
RDH		Dual RAH	3.00	3.00	4.14	37	RAH	x					
RAF		RAB but with terminals on base	5.15	2.96	2.58	39	x						
RAB			5.15	2.96	2.58	39	x	RDB			RAQ		x
RAE	RAB but with stainless steel case	5.15	2.96	2.58	39	x							
RAQ	Automated assembly version of RAB	5.32	3.06	2.69	44	x	RDQ	RLQ		x			
RDJ		5.94	2.54	3.10	47		x						
GD		5.99	3.10	2.59	48		x						
GD30	GD but with 0.007" thick µmetal case	6.10	3.20	2.69	53		x						
GD40	GD but with 0.007" thick stainless steel case	6.10	3.20	2.69	53		x						
TWFK	Two Way (woofer/tweeter) hi-fi FK	5.00	2.73	3.86	53		x						
SWFK	Super Wideband FK: pair of tweeter FK	5.00	2.73	3.86	53		x				x		
DFK	Dual FK	5.00	2.73	3.86	53	FK	x						
DWFK	Dual Wideband FK	5.00	2.73	3.86	53	WBFK	x				x		
RDD	Dual RAD	5.00	2.73	3.86	53	RAD	x						
RLQ	Dual diaphragm version of RAQ	5.32	3.06	3.33	54	RAQ		x		x			
HC	High output FC	5.16	3.51	3.00	54	x			FHC		WBHC		
WBHC	Wideband HC	5.16	3.51	3.00	54	x					x		
FHC	HC + ferrofluid damping	5.16	3.51	3.00	54	x			x				
EH		5.19	3.55	3.00	55	x			FEH				
FC		5.18	3.55	3.00	55	x			FFC				
FFC	FC + ferrofluid damping	5.18	3.55	3.00	55	x			x				
FEH	EH + ferrofluid damping	5.19	3.55	3.00	55	x			x				
RDP	Dual RAP	5.11	2.83	4.06	59	RAP	x						
RDN	Dual RAN	5.11	2.83	4.06	59	RAN	x						



Series	Power Level	Description	Length (mm)	Width (mm)	Height (mm)	Volume (mm ³)	Related Series - x shows already included						
							Single	Dual	Dual Diaphragm	Ferrofluid Damped	Automated Assembly	Wideband	HF Enhanced Option
FJ	High	Dual FH	5.08	2.79	5.18	73	FH	x					
RDB		Dual RAB	5.15	2.96	5.16	79	RAB	x					
ED			6.29	4.28	2.97	80	x	EJ		FED			
FED		ED + ferrofluid damping	6.32	4.31	2.97	81	x			x			
RDL			6.09	4.31	3.20	84		x					
GR			6.10	3.20	4.32	84		x					
RDQ		Dual RAQ	5.32	3.06	5.38	88	RAQ	RDQ					
TEC			7.87	4.09	2.79	90	x	DTEC		FTEC			
HOTEC		High Output TEC	7.87	4.09	2.79	90	x	HODTEC					
RAI			7.87	4.09	2.79	90	x	RDI	RLI				x
FTEC		TEC + ferrofluid damping	7.87	4.09	2.79	90	x			x			
RLI		Dual diaphragm version of RAI	7.87	4.09	3.56	115	RAI		x				
EJ		Dual ED	6.30	4.29	6.17	167	ED	x					
HODTEC		Dual HODTEC	7.87	4.09	5.23	168	HODTEC	x					
DTECLP	Low profile DTEC	7.87	4.09	5.23	168		x						
RDI	Dual RAI	7.87	4.09	5.23	168	RAI	x					x	
EF		7.87	5.59	4.01	176	x			FEF				
BK		7.87	5.59	4.01	176	x							
FEF	EF + ferrofluid damping	7.87	5.59	4.01	176	x			x				
DTEC	Dual TEC	7.87	4.09	5.59	180	TEC	x						
HODVTEC	Dual HOVTEC	7.87	4.09	5.59	180		x						
CI	Ultra		9.47	7.18	4.10	279	x						
QTEC		Quad TEC	7.87	8.18	5.59	360	TEC	DTEC					