

General Description

17 x 12 x 2.3mm High Power Mobile Speaker



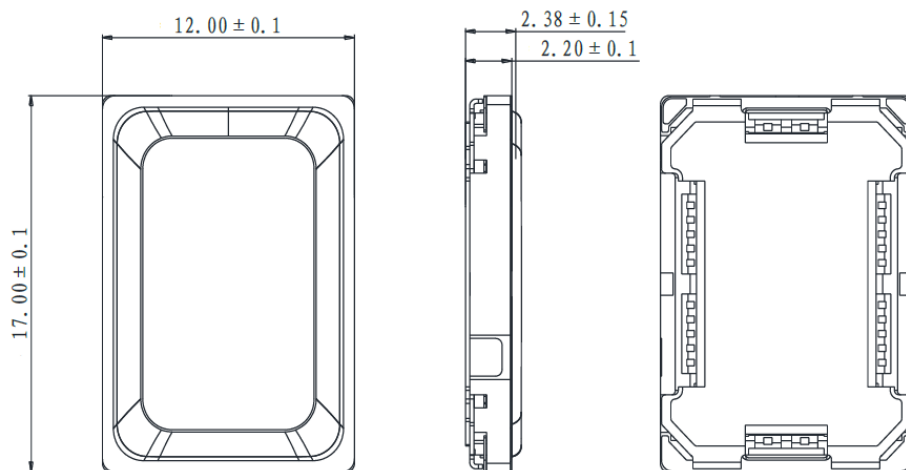
IP67



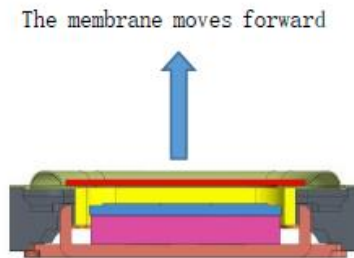
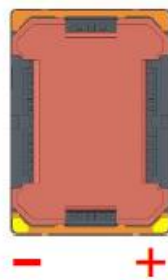
ELECTRICAL SPECIFICATIONS

Parameters		Value	Unit
Resonance Frequency	@ 0.8cc back case (measured @1.7W) ,25°C	1010 ±10%	Hz
DC Resistance		7±10%	Ω
Rated AC Impedance	@ 2kHz	8±10%	Ω
Rated Power		1.7	W
Short Time Power, max		2.5	W
Sound Pressure Level-1	@ 2.0 kHz / 3.7V/10 cm SC Bafflec in 0.8 cc back case	98±3	dB
Sound Pressure Level-2	@ 500Hz / 3.7V/10 cm SC Bafflec in 0.8 cc back case	84.5±3	dB
Operating Temperature Range		-20 ~ +70	°C
Storage Temperature Range		-40 ~ +85	°C
Rub & BUZ	@ Sine wave, 100 ~ 20KHz, 1/12 OCT;0.8cc back case baffle	3.7	V
Listening Condition	@3.7Vrms (1.7W) , in 0.8cc back case 100Hz~2kHz ; sine wave · time : 1~2s ; 2cycles	No Audible Rub & Buzz	-
Polarity	When a DC source's "+"polarity is attached to speaker's "+"polarity, "-"polarity is attached speaker's "-"polarity, the membrane will move forward.		-

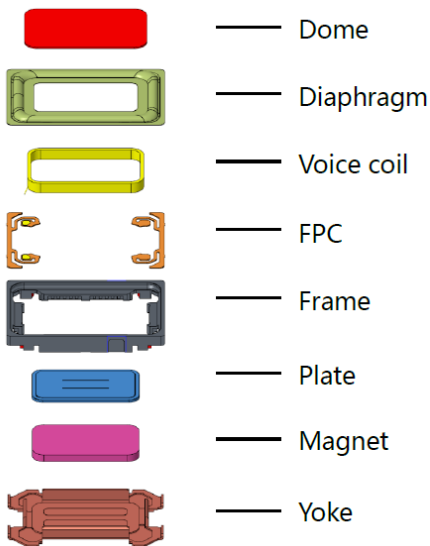
DIMENSIONS



Unit: mm

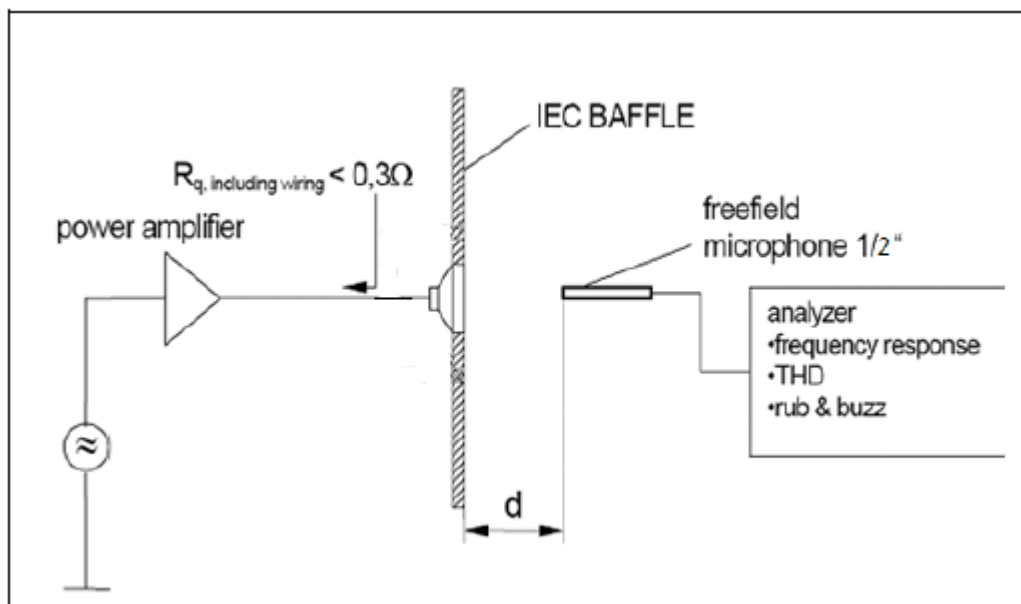


When a DC source's "+" pole is attached to speaker's "+" pole, "-" pole is attached speaker's "-" pole, the membrane will move forward.



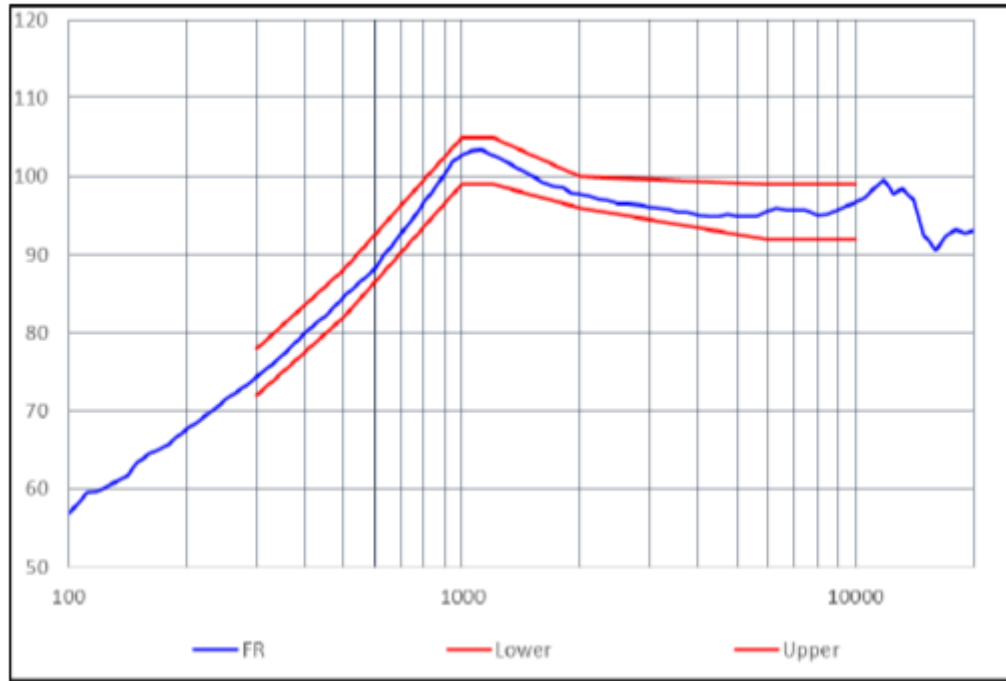
No.	Part Name	Material	Quantity
1	Dome	Aluminium	1
2	Diaphragm	Polymer	1
3	Frame	Plastic (PPA)	1
4	Plate	SPCC	1
5	Voice Coil	Copper	1
6	Magnet	NdFeB	1
7	FPC	Cu+PI	2
8	Yoke	SPCC	1

TEST METHOD



FREQUENCY CHARACTERISTICS

Test condition : sine wave, 100 ~ 20kHz, 1/12 OCT, 3.7V;0.8cc back case · baffle

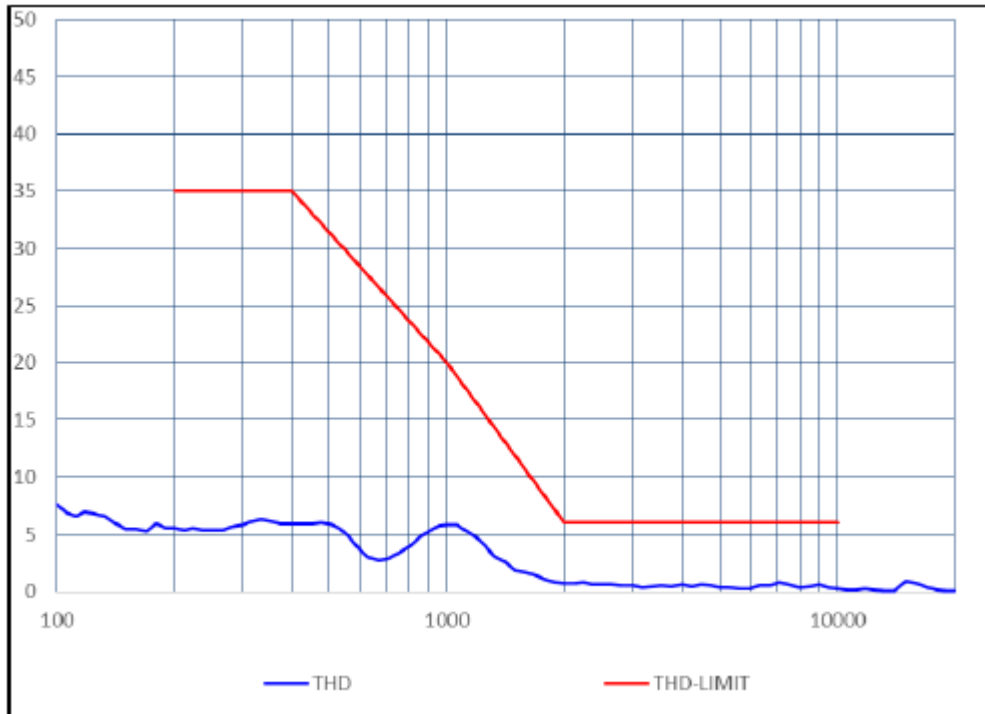


Typical Frequency Response

FR (Hz)	Upper		FR (Hz)	Lower	
	Before Reliability	After Reliability		Before Reliability	After Reliability
300	78	79	300	72	71
500	88	89	500	82	81
1000	105	106	1000	99	98
1200	105	106	1200	99	98
2000	100	101	2000	96	95
6000	99	100	6000	92	91
10000	99	100	10000	92	91

THD

Test condition : sine wave, 100 ~ 20KHz, 1/12 OCT, 3.7V;0.8cc back case · baffle

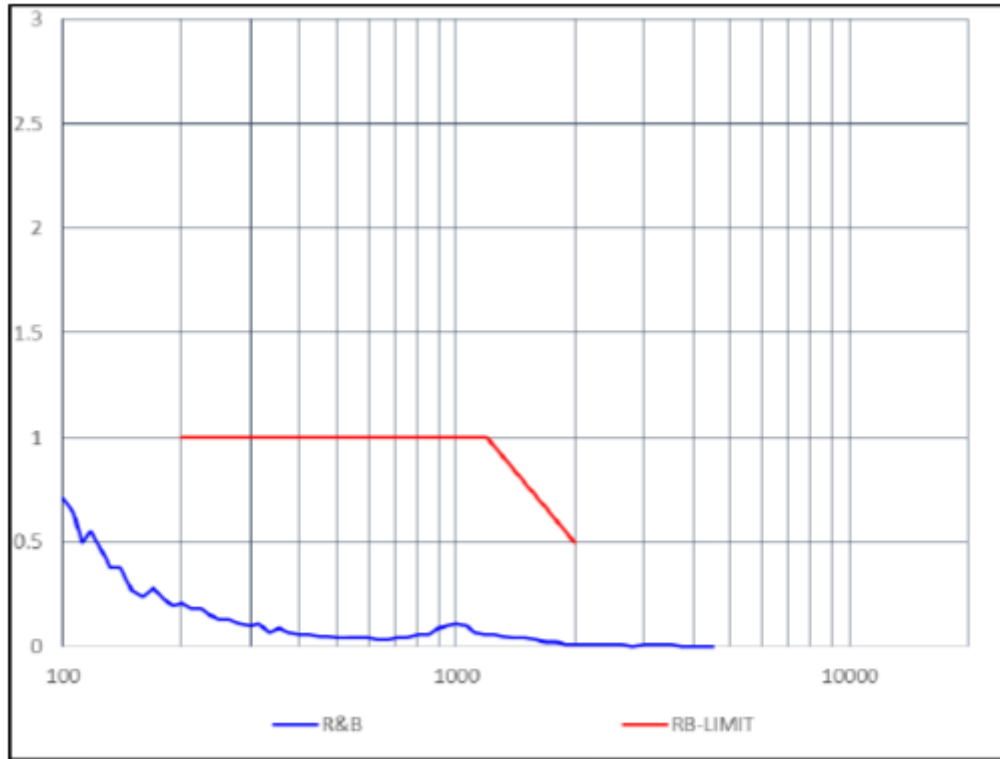


THD

THD (Hz)	Before Reliability	After Reliability
200	35	45
400	35	45
1000	20	26
2000	6	7
10000	6	7

R&B

Test condition : sine wave, 100 ~ 20KHz, 1/12 OCT, 3.7V;0.8cc back case · baffle



R&B (10-35OCT harmonic wave)

R&B (Hz)	Before Reliability	After Reliability
200	1	1.5
1200	1	1.5
2000	0.5	0.75

TS Parameter

Parameter	0.8cc back case	Unit
Mm	82	mg
F0	1020	Hz
Sd	1.3	cm ²
Re (DC)	7.0	Ω
Ze	8.0	Ω
Qm	5.986	
Qe	7.252	
Qt	3.282	
Cm	0.273	mm/N
Rm	0.091	N • S/m
B1	0.72	T • m
Vas	0.8	cm ³

PA Application Parameters

No.	Item	Value	Unit
1	Re (DC)	7±10%	Ω
2	Re (AC)	8.0±10%	Ω
3	X _{max} (p-p)	0.8	mm
4	Tcoef	0.00382	1/K
5	Tmax	110	°C
6	B1	0.72	T • m
7	Sd	1.3	cm ²

APPROVAL

DRAWN BY	AR, June 24, 2024
APPROVED BY	CP, June 24, 2024
REVISION	A, Initial Release



Raltron Electronics / RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided only for reference purposes only and is subject to change, correction or revision, at any time without notice. Raltron/RAMI Tech does not assume any liability arising out of an application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages. Copyright © 2016, Raltron Electronics / RAMI Technology USA, LLC. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Raltron Electronics / RAMI Technology USA, LLC.