



East Electronics

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Product Name:	Speaker
Part Number:	SCM-20R3.2-16N0.5R
Version:	Rev. 1
Date:	2021-7-7
Note:	

Company passed ISO 9001 / IATF16949 / ISO 14001Certifications

Revision History

Rev.	Description	Author/Date	Checked By	Approver
1	Released	Lv Wenbing July.7,2021	Gaorong	Wang Jiancheng

SPECIFICATIONS

Parameter	Conditions/Description	Values	Units
Rated Input Power		0.5	W
Max Input Power		1.0	W
Rated Impedance	at 2.0 kHz	16±15%	Ω
Sound Pressure Level (S.P.L.)	at 0.8K 1.0K 1.2K 1.5KHz in0.1W/0.1M average (0dB SPL=20µPa)	89±3	dB
Resonant Frequency (Fo)	at 1.0 V	850±20%	Hz
Frequency Range	Output S.P.L10dB	Fo~20K	Hz
Distortion	at 2K Hz, input 0.1W,	<10%	-
Magnet	NdFeB	Ф8.0*1.0	mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 5K Hz	2.83	v
Polarity	cone will move forward with positive dc current to"+" terminal		
Weight		2.3	g
Operating Temperature		-20~+70	Ĉ
Storage Temperature		-20~+85	C
Waterproof		IP67	

Notes: All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

Tolerance: ±0.5mm



CONSTRUCTION DETAIL

PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
1	Gasket A	1	ABS	
2	Diaphragm	1	PEI	
3	VOICE COIL	1	Cu	
4	Plate	1	SPCC	
5	Magnet	1	NdFeB	
6	PCB Terminal	1	FR4	
7	Frame	1	SPCC	

RESPONSE CURVES



RELIABLITY TEST

After any following test, parts should conform to original performance within ±3 dB tested with Rated Power, after 6 hours of recovery period.			
96 hours at +70℃±3℃			
96 hours at -30°C±3°C			
96 hours at +30℃±3℃, 92-95% RH			
s and consist of			
10mm thick			
ed Power for 96			
Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds; Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;			
40 20 3			



PACKAGING

units: cm

Remark:

100pcs per tray

10 trays for unit, 2 units per carton

Total:1600 pcs per box

Size:37*28*29.5cm







800pcs

