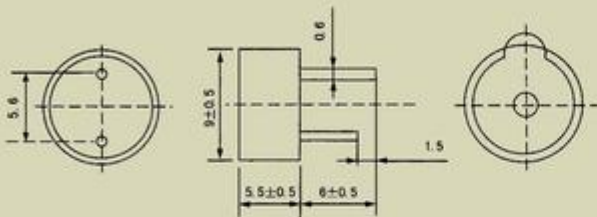


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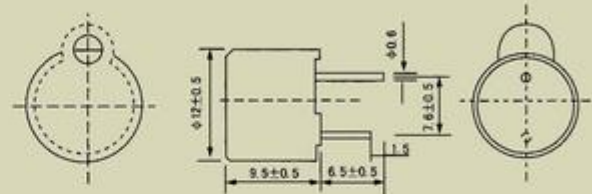
HC-09-B



Type	HC-09-B			
Rated Voltage(V)	1.5	1.5	1.5	3
Voltage Range (V)	1~3	1~3	1~3	3~5
Rated Current(mA)	≤ 85	≤ 65	≤ 45	≤ 35
Coil Resistance(Ω)	5.5	8	16	42
Sound Output(dB)	≥ 75	≥ 75	≥ 80	≥ 80
Resonant Freq(Hz)	2731	2731	2731	2731
Operating Temp($^{\circ}$ C)	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp($^{\circ}$ C)	-30~+70	-30~+70	-30~+70	-30~+70
Weight(g)	1	1	1	1



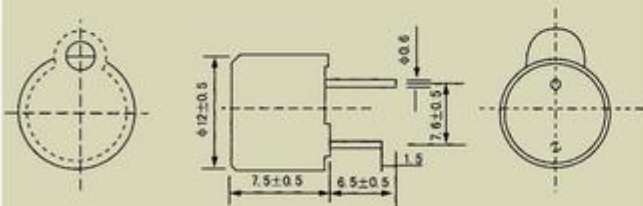
TMB12A



Type	TMB-12A01	TMB-12A03	TMB-12A05	TMB-12A12	TMB-12A24	TMB-12A24
Rated Voltage(V)	1.5	3	5	12	24	24
Voltage Range(V)	1.2~2.5	2.5~4	4~7	8~15	15~28	15~28
Rated Current(mA)	≤ 20	≤ 35	≤ 30	≤ 25	≤ 45	≤ 30
Sound Output(dB)	≥ 80	≥ 82	≥ 85	≥ 85	≥ 85	≥ 85
Resonant Freq(Hz)	2300 ± 500	2300 ± 500	2300 ± 500	2300 ± 500	2300 ± 500	2300 ± 500
Operating Temp($^{\circ}$ C)	-20~+60	-20~+60	-20~+60	-20~+60	-20~+75	-20~+75
Storage Temp($^{\circ}$ C)	-20~+80	-20~+80	-20~+80	-20~+80	-20~+85	-20~+85
Weight(g)	2	2	2	2	2	2



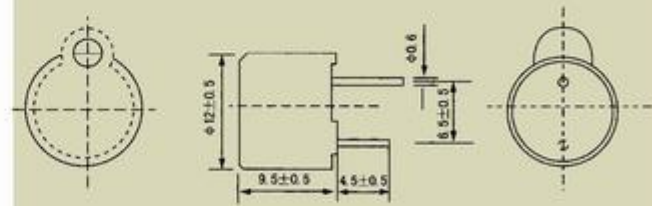
TMB12D



Type	TMB-12D01	TMB-12D03	TMB-12D05	TMB-12D012
Rated Voltage(V)	1.5	3	5	12
Voltage Range (V)	1.4~2	2~5	3~7	9~15
Rated Current(mA)	≤ 25	≤ 35	≤ 30	≤ 25
Sound Output(dB)	≥ 75	≥ 82	≥ 83	≥ 83
Resonant Freq(Hz)	2800 ± 500	2800 ± 500	2800 ± 500	2800 ± 500
Operating Temp($^{\circ}$ C)	-20~+60	-20~+60	-20~+60	-20~+60
Storage Temp($^{\circ}$ C)	-25~+80	-25~+80	-25~+80	-25~+80
Weight(g)	2	2	2	2



TMB12C



Type	TMB-12C01	TMB-12C05	TMB-12C12
Rated Voltage(V)	1.5	5	12
Voltage Range(V)	1~2	4~8	7~16
Rated Current(mA)	≤ 70	≤ 40	≤ 40
Coil Resistance(Ω)	16 ± 2	40 ± 5	120 ± 5
Sound Output(dB)	≥ 85	≥ 85	≥ 85
Resonant Freq(Hz)	2048	2300 ± 200	2048
Operating Temp($^{\circ}$ C)	-20~+60	-20~+60	-20~+60
Storage Temp($^{\circ}$ C)	-20~+70	-20~+70	-20~+70
Weight(g)	2	2	2