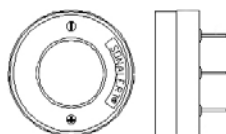


# Product APPLICATION Guide



Piezoelectric- PC Pins

## Piezoelectric Indicators- Continuous Tone

Non-RoHS Part No.	RoHS Part No.	UL	Min Sound Level dBa (2 ft)	Freq. (Hz)	Operating Voltage	Max Current (mA)	Size Dia x Len (in)
<b>Medium Sound Level- Continuous Tone</b>							
SBM2	SBM2R	■	55 - 68	2900	1 - 5	3 - 16	42.9 x 15.9
SBM428	SBM428R	■	64 - 76	2900	4 - 28	3 - 16	42.9 x 15.9

## Piezoelectric Indicators- Fast & Slow Pulse Tone

<b>Medium Sound Level- Fast Pulse Tone (2 - 10 pps)</b>							
SBM616P			68 - 78	2900	6 - 16	3 - 12	42.9 x 15.9
<b>Medium Sound Level- Slow Pulse Tone (0.5 - 2 pps)</b>							
SBM616J			68 - 78	2900	6 - 16	3 - 12	42.9 x 15.9



Piezoelectric- PC Pins

## Piezoelectric Indicators- Continuous Tone

Part Number	Sound Level @ 12Vdc @ 30 cm	Freq. (Hz)	Operating Voltage (Vdc)	Current @ 12Vdc (mA)	Dia x Hgt (mm)	PC Pin Pitch (mm c/c)	Comments
<b>Soft Sound Level- Continuous Tone</b>							
MCP320Q	70	3100	3 - 20	5	24 x 17.5	15	Sealed
PK-12N40PQ	76	4100	3 - 15	10	13.8 x 7.5	7.6	
PK-12N40PEQ	76	4100	3 - 15	10	13.8 x 7.5	7.6	Sealed
<b>Medium Sound Level- Continuous Tone</b>							
PK-21N30PQ	80	3000	1.5 - 30	12	24 x 9.5	15	
PK-21N31PQ	80	3000	1.5 - 30	12	24 x 14	15	Sealed Back
MSO320R	81	3400	3 - 20	13	23 x 13.5	15	
MSO320SR	81	3400	3 - 20	13	23 x 13.5	15	Sealed
MSR320R	81	3500	3 - 20	13	23 x 10.5	15	
MSR320SR	81	3500	3 - 20	13	23 x 10.5	15	Sealed
PK-21A29PQ	85	3000	3 - 24	18	24 x 14	15	

Part Number	Sound Level @ 12Vdc @ 30 cm	Freq. (Hz)	Operating Voltage (Vdc)	Current @ 12Vdc (mA)	Dia x Hgt (mm)	PC Pin Pitch (mm c/c)	Comments
<b>Medium Sound Level- Continuous Tone Con't</b>							
PK-21A31PQ	85	3000	3 - 24	18	24 x 14	15	Sealed Back
PK-20N38PQ	85	3800	3 - 28	12	23 x 18	15	
PK-27N26PSQ	90	2500	3 - 28	15	30 x 10	15	
PK-27N36PSQ	90	3500	3 - 28	15	30 x 10	15	
<b>Loud Sound Level- Continuous Tone</b>							
MSR414NR	91	3900	4 - 14	12	23 x 10.5	15	
MSR414NSR	91	3900	4 - 14	12	23 x 10.5	15	Sealed
MSR516NR	91	3850	5 - 16	12	23 x 10.5	15	
MSR516NSR	91	3850	5 - 16	12	23 x 10.5	15	Sealed
MCP320B2Q	95	2500	3 - 20	20	23 x 18	15	
MAS800Q	95	2800	9 - 12	50	26 x 22	15	
MAS800SQ	95	2800	9 - 12	50	26 x 22	15	Sealed
MAS803Q	95 @ 6Vdc	2800	1.5 - 6	130@6Vdc	26 x 22	15	
MAS803SQ	95 @ 6Vdc	2800	1.5 - 6	130@6Vdc	26 x 22	15	Sealed
MAS806Q	95	2800	6 - 14	50	26 x 22	15	
MAS806SQ	95	2800	6 - 14	50	26 x 22	15	Sealed
PK-20A25PQ	95	2500	3 - 24	25	23 x 18	15	
PK-27A25PSQ	95	2500	3 - 24	10	30 x 16	15	
PK-27A35PSQ	95	3500	3 - 24	10	30 x 16	15	
PK-20A38PQ	95	3800	3 - 24	12	23 x 18	15	
PK-35H29P-6Q	100	2900	3 - 18	20	42 x 16	25	

## Piezoelectric Indicators- Fast & Slow Pulse Tone

<b>Medium Sound Level- Fast Pulse Tone (3 pps)</b>							
PF-21N30PQ	80	3000	3 - 30	12	24 x 9.5	15	
PF-21N31PQ	80	3000	3 - 30	12	24 x 14	15	Sealed Back
PF-21A29PQ	85	3000	3 - 24	18	24 x 9.5	15	
PF-21A31PQ	85	3000	3 - 24	18	24 x 14	15	Sealed Back
PF-27N26PSQ	90	2500	3 - 28	15	30 x 10	15	
PF-27N36PSQ	90	3500	3 - 28	15	30 x 10	15	
<b>Loud Sound Level- Fast Pulse Tone (3 pps)</b>							
MSR516NPR	91	3900	5 - 16	12	23 x 10.5	15	
MSR516NPSR	91	3900	5 - 16	12	23 x 10.5	15	Sealed
PF-27A25PSQ	95	2500	3 - 24	15	30 x 16	15	
PF-27A35PSQ	95	3500	3 - 24	15	30 x 16	15	
<b>Medium Sound Level- Slow Pulse Tone (1.2 pps)</b>							
PL-21N30PQ	80	3000	3 - 28	12	24 x 9.5	15	
PL-21N31PQ	80	3000	3 - 28	12	24 x 14	15	Sealed Back
PL-21A29PQ	85	3000	3 - 24	18	24 x 14	15	
PL-21A31PQ	85	3000	3 - 24	18	24 x 14	15	Sealed Back
PL-27N26PSQ	90	2500	3 - 28	15	30 x 16	15	
PL-27N36PSQ	90	3500	3 - 28	15	30 x 16	15	
<b>Loud Sound Level- Slow Pulse Tone (3 pps)</b>							
MSR516NJR	91	3900	5 - 16	12	23 x 10.5	15	
MSR516NJSR	91	3900	5 - 16	12	23 x 10.5	15	Sealed
PL-27A25PSQ	95	2500	3 - 24	15	30 x 16	15	
PL-27A35PSQ	95	3500	3 - 24	15	30 x 16	15	

## Piezoelectric Indicators- Siren & Whooping Tone

Part Number	Sound Level @ 12Vdc @ 30 cm	Freq. (Hz)	Operating Voltage (Vdc)	Current @ 12Vdc (mA)	Dia x Hgt (mm)	PC Pin Pitch (mm c/c)	Comments
<b>Medium Sound Level- Siren Tone (3 Hz sweep rate)</b>							
MSR516XR	86	3800	5 - 16	8	23 x 10.5	15	
MSR516XSR	86	3800	5 - 16	8	23 x 10.5	15	Sealed
<b>Loud Sound Level- Whooping Tone (6 Hz sweep rate)</b>							
MSR516WR	91	3700	5 - 16	8	23 x 10.5	15	
MSR416WSR	91	3700	5 - 16	8	23 x 10.5	15	Sealed



Piezoelectric- 3 PC Pins

## Piezoelectric Indicators- Dual Tone

Part Number	Sound Level @ 12Vdc @ 30 cm	Freq. (Hz)	Operating Voltage (Vdc)	Current @ 12Vdc (mA)	Dia x Hgt (mm)	Comments
<b>Medium Sound Level- Continuous or Fast Pulse Tone (3 pps)</b>						
PFD-21N30PQ	80	3000	3 - 30	12	24 x 9.5	
PFD-27N36PQ	90	3500	3 - 28	15	30 x 10	
<b>Loud Sound Level- Continuous or Fast Pulse Tone (3 pps)</b>						
PFD-27A35PQ	95	3500	3 - 24	10	30 x 16	
<b>Medium Sound Level- Continuous or Slow Pulse Tone (1.2 pps)</b>						
PLD-21N30PQ	80	3000	3 - 30	12	24 x 9.5	
PLD-27N36PQ	90	3500	3 - 28	15	30 x 10	
<b>Loud Sound Level- Continuous or Slow Pulse Tone (1.2 pps)</b>						
PLD-27A35PQ	95	3500	3 - 24	10	30 x 16	

**Note:** See individual data sheets for pc pin spacing



Piezoelectric- PC Pins

## Piezoelectric Indicators- Siren Tone

Part Number	Sound Level @ 12Vdc @ 30 cm	Freq. (Hz)	Operating Voltage (Vdc)	Current @ 12Vdc (mA)	Dia x Hgt (mm)	Comments
<b>Extra Loud Sound Level- Siren Tone (3.3 Hz Sweep Rate)</b>						
PS-953Q	114	2500	5 - 15	150	33 x 33	

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