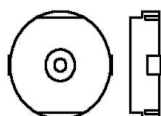


# Product APPLICATION Guide

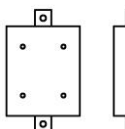
## Transducers- External Drive- Piezo



**Surface Mount- Piezoelectric**  
Top Hole- No Wash Label

### Surface Mount Transducers (No Circuitry)

| Part Number                                   | Sound Level @ 10 cm | Freq. (Hz) | Operating Voltage (Vp-p) | Current (mA) | Dia x Hgt (mm) | Comments |
|-----------------------------------------------|---------------------|------------|--------------------------|--------------|----------------|----------|
| <b>Piezoelectric Transducer- No Circuitry</b> |                     |            |                          |              |                |          |
| AST100Q                                       | 80 @ 5Vpp           | 4000       | 3 - 15                   | 1.5 @ 5Vpp   | 17 x 5         | Tube     |
| AST100TRQ                                     | 80 @ 5Vpp           | 4000       | 3 - 15                   | 1.5 @ 5Vpp   | 17 x 5         | T&R      |



**Surface Mount- Piezoelectric**  
4 Top Holes- No Wash Label

### Surface Mount Transducers (No Circuitry)

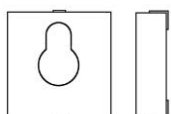
| Part Number                                   | Sound Level @ 10 cm | Freq. (Hz) | Operating Voltage (Vp-p) | Current (mA) | L x W x H (mm) | Comments |
|-----------------------------------------------|---------------------|------------|--------------------------|--------------|----------------|----------|
| <b>Piezoelectric Transducer- No Circuitry</b> |                     |            |                          |              |                |          |
| AST1109MLQ                                    | 73 @ 5Vpp           | 4100       | 1 - 20                   | 1 @ 5Vpp     | 11 x 9 x 1.7   | Cut Tape |
| AST1109MLTRQ                                  | 73 @ 5Vpp           | 4100       | 1 - 20                   | 1 @ 5Vpp     | 11 x 9 x 1.7   | T&R      |
| AST1341MACQ                                   | 90 @ 12Vpp          | 4100       | 1 - 25                   | 8 @ 12Vpp    | 13 x 13 x 2.5  | Cut Tape |
| AST1341MACTRQ                                 | 90 @ 12Vpp          | 4100       | 1 - 25                   | 8 @ 12Vpp    | 13 x 13 x 2.5  | T&R      |
| AST1640MACQ                                   | 90 @ 12Vpp          | 4000       | 3 - 20                   | 8 @ 12Vpp    | 16 x 16 x 2.5  | Cut Tape |
| AST1640MACTRQ                                 | 90 @ 12Vpp          | 4000       | 3 - 20                   | 8 @ 12Vpp    | 16 x 16 x 2.5  | T&R      |



**Surface Mount- Piezoelectric**  
**Side Hole- No Wash Label**

## Surface Mount Transducers (No Circuitry)

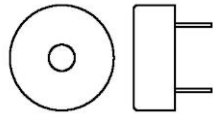
| Part Number                                   | Sound Level<br>@ 10 cm | Freq.<br>(Hz) | Operating<br>Voltage<br>(Vp-p) | Current<br>(mA) | L x W x H<br>(mm) | Comments |
|-----------------------------------------------|------------------------|---------------|--------------------------------|-----------------|-------------------|----------|
| <b>Piezoelectric Transducer- No Circuitry</b> |                        |               |                                |                 |                   |          |
| AST0760MCQ                                    | 74 @ 12Vpp             | 6000          | 1 - 25                         | 6 @ 12Vpp       | 7.5 x 7.5 x 2     | Cut Tape |
| AST0760MCTRQ                                  | 74 @ 12Vpp             | 6000          | 1 - 25                         | 6 @ 12Vpp       | 7.5 x 7.5 x 2     | T&R      |
| AST0940MCQ                                    | 78 @ 12Vpp             | 4000          | 1 - 25                         | 5 @ 12Vpp       | 9 x 9 x 1.9       | Cut Tape |
| AST0940MCTRQ                                  | 78 @ 12Vpp             | 4000          | 1 - 25                         | 5 @ 12Vpp       | 9 x 9 x 1.9       | T&R      |
| AST1240MLQ                                    | 75 @ 5Vpp              | 4000          | 1 - 25                         | 5 @ 5Vpp        | 12 x 12 x 3       | Cut Tape |
| AST1240MLTRQ                                  | 75 @ 5Vpp              | 4000          | 1 - 25                         | 5 @ 5Vpp        | 12 x 12 x 3       | T&R      |
| AST1628MAQ                                    | 75 @ 3Vpp              | 4000          | 1 - 25                         | 5 @ 3Vpp        | 16 x 16 x 2.9     | Cut Tape |
| AST1628MATRQ                                  | 75 @ 3Vpp              | 4000          | 1 - 25                         | 5 @ 3Vpp        | 16 x 16 x 2.9     | T&R      |



**Surface Mount- Piezoelectric**  
**Top Hole with Wash Label**

## Surface Mount Transducers (No Circuitry)

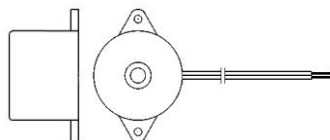
| Part Number                                   | Sound Level<br>@ 10 cm | Freq.<br>(Hz) | Operating<br>Voltage<br>(Vp-p) | Current<br>(mA) | L x W x H<br>(mm) | Comments         |
|-----------------------------------------------|------------------------|---------------|--------------------------------|-----------------|-------------------|------------------|
| <b>Piezoelectric Transducer- No Circuitry</b> |                        |               |                                |                 |                   |                  |
| AST1440MAQ                                    | 75 @ 5Vpp              | 4000          | 1 - 20                         | 2 @ 5Vpp        | 14.9 x 14.1 x 4.5 | Sealed; Cut Tape |
| AST1440MATRQ                                  | 75 @ 5Vpp              | 4000          | 1 - 20                         | 2 @ 5Vpp        | 14.9 x 14.1 x 4.5 | Sealed; T&R      |
| AST1575BMAQ                                   | 85 @ 7Vpp              | 3650          | 1 - 30                         | 5 @ 7Vpp        | 14.8 x 14.8 x 7.5 | Sealed; Cut Tape |
| AST1575BMATRQ                                 | 85 @ 7Vpp              | 3650          | 1 - 30                         | 5 @ 7Vpp        | 14.8 x 14.8 x 7.5 | Sealed; T&R      |
| AST1750MAQ                                    | 80 @ 5Vpp              | 4000          | 1 - 20                         | 2.5 @ 5Vpp      | 17 x 17 x 5       | Sealed; Cut Tape |
| AST1750MATRQ                                  | 80 @ 5Vpp              | 4000          | 1 - 20                         | 2.5 @ 5Vpp      | 17 x 17 x 5       | Sealed; T&R      |



## Piezoelectric- PC Pins

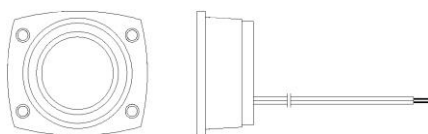
## Piezoelectric Transducers- External Drive

| Part Number                                                   | Sound Level<br>@ 10cm<br>5Vpp Sq. Wave | Freq.<br>(Hz) | Operating<br>Voltage<br>(Vpp) | Current<br>@ 5Vpp<br>(mA) | Dia x Hgt<br>(mm) | PC Pin<br>Pitch<br>(mm c/c) | Comments      |
|---------------------------------------------------------------|----------------------------------------|---------------|-------------------------------|---------------------------|-------------------|-----------------------------|---------------|
| <b>Piezoelectric Transducer- External Drive (No Feedback)</b> |                                        |               |                               |                           |                   |                             |               |
| PT-1520PQ                                                     | 72 @ 3Vpp                              | 2000          | 1 – 25                        | 1.5 @ 3Vpp                | 17 x 7.8          | 10                          |               |
| PT-4176PQ                                                     | 75                                     | 750           | 1 - 30                        | 1.5                       | 50 x 13           | 43                          | Offset Terms  |
| PT-1241PFQ                                                    | 80 @ 3Vpp                              | 4000          | 1 - 30                        | 1.5 @ 3Vpp                | 12.5 x 6          | 5                           |               |
| PT-2020PQ                                                     | 80                                     | 2000          | 1 - 30                        | 1.5                       | 22x7.2x26.6       | 12.5                        | Edge Mount    |
| PT-2030P-PQ                                                   | 80                                     | 2000          | 1 - 25                        | 1.5                       | 26 x 16           | 23                          | Offset Terms  |
| PT-1245P-PQ                                                   | 80                                     | 4000          | 1 - 25                        | 1.5                       | 12.6 x 6.9        | 7.6                         |               |
| PT-1245P-P7.5Q                                                | 80                                     | 4000          | 1 - 25                        | 1.5                       | 12.6 x 6.9        | 7.6                         | 7.5mm Pin Len |
| PT-1240PEQ                                                    | 80                                     | 4000          | 1 - 30                        | 2                         | 13.5 x 6.7        | 7.5                         | Sealed        |
| PT-1540PQ                                                     | 80                                     | 4000          | 1 - 25                        | 1.5                       | 17 x 9            | 10                          |               |
| PT-1240PQ                                                     | 80                                     | 4100          | 1 - 20                        | 2                         | 13.8 x 8.3        | 7.6                         |               |
| PT-1250PQ                                                     | 80                                     | 5000          | 1 - 25                        | 1.5                       | 13.8 x 4          | 7.6                         |               |
| PT-2060PQ                                                     | 80                                     | 6000          | 1 - 30                        | 1.5                       | 24 x 5.5          | 10                          |               |
| PT-1140PEQ                                                    | 85 @ 9Vpp                              | 4000          | 1 - 20                        | 7 @ 9Vpp                  | 12 x 5.5          | 6.5                         |               |
| PT-3110PQ                                                     | 85                                     | 1100          | 1 - 30                        | 2                         | 34 x 10.3         | 25.4                        |               |
| PT-1340P-PQ                                                   | 85                                     | 4000          | 1 - 25                        | 1.5                       | 14 x 7.7          | 5                           |               |
| PT-1340P-7.6-PQ                                               | 85                                     | 4000          | 1 - 25                        | 1.5                       | 14 x 7.7          | 7.6                         |               |
| PT-1340P-10-PQ                                                | 85                                     | 4000          | 1 - 25                        | 1.5                       | 14 x 7.7          | 10                          |               |
| PT-1540PM-3.5Q                                                | 85                                     | 4000          | 1 - 25                        | 1.5                       | 17 x 9            | 10                          |               |
| PT-4175PQ                                                     | 87                                     | 750           | 1 - 30                        | 1.4                       | 44 x 14           | 25.4                        |               |
| PT-3110P-05Q                                                  | 90                                     | 1100          | 1 - 30                        | 2                         | 34.5 x 10.3       | 25.4                        |               |
| PT-2726PQ                                                     | 90                                     | 2500          | 1 - 30                        | 1.5                       | 30 x 10           | 15                          |               |
| PT-2725PQ                                                     | 90                                     | 2500          | 1 - 30                        | 1.5                       | 30 x 12           | 15                          |               |
| PT-2130PQ                                                     | 90                                     | 3000          | 1 - 30                        | 5                         | 24 x 9.5          | 15                          |               |
| PT-2130PSQ                                                    | 90                                     | 3000          | 1 - 30                        | 5                         | 24 x 9.5          | 12                          |               |
| PT-2736PQ                                                     | 90                                     | 3500          | 1 - 30                        | 5                         | 30 x 10           | 18                          |               |
| PT-2040PQ                                                     | 90                                     | 4000          | 1 - 30                        | 1.5                       | 22 x 9            | 10                          |               |
| PT-3529PQ                                                     | 95                                     | 2900          | 1 - 30                        | 5                         | 42 x 16           | 25.4                        |               |
| PT-4532PLQ                                                    | 103                                    | 3200          | 3 - 50                        | 30                        | 54 x 18.8         | 46.5                        | Blade Terms   |

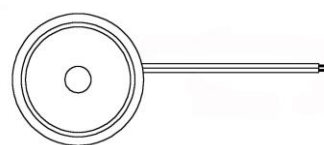
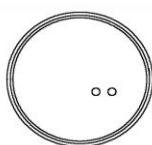
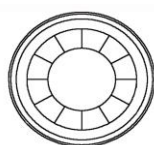
**Flange Mount**

## Flange Mount Transducer- External Drive

| Part Number                                        | Sound Level<br>@ 10 cm<br>5Vpp Sq. Wave | Freq.<br>(Hz) | Operating<br>Voltage<br>(Vpp) | Current<br>@ 5Vpp<br>(mA) | Size<br>Dia x Hgt<br>(mm) | Flange Hole<br>Spacing<br>( mm c/c) | Comments      |
|----------------------------------------------------|-----------------------------------------|---------------|-------------------------------|---------------------------|---------------------------|-------------------------------------|---------------|
| <b>Piezoelectric- External Drive (No Feedback)</b> |                                         |               |                               |                           |                           |                                     |               |
| PT-1540WQ                                          | 80                                      | 4000          | 1 - 25                        | 1.5                       | 17 x 8.5                  | 23                                  |               |
| PT-1250WQ                                          | 80                                      | 4800          | 1 - 30                        | 1.5                       | 13.8 x 4                  | N/A                                 | No Flange     |
| PT-1550WQ                                          | 80                                      | 5000          | 1 - 25                        | 1.5                       | 16.5 x 4                  | N/A                                 | No Flange     |
| PT-3110WQ                                          | 85                                      | 1100          | 1 - 30                        | 2                         | 34.5 x 9                  | 40                                  |               |
| PT-4175WQ                                          | 87                                      | 750           | 1- 30                         | 1.5                       | 44 x 14                   | 52                                  | Flange at Top |
| PT-2725WQ                                          | 90                                      | 2500          | 1 - 30                        | 1.5                       | 30 x 12                   | 35                                  |               |
| PT-2130WQ                                          | 90                                      | 3000          | 1 - 30                        | 3                         | 24 x 9.5                  | 29                                  |               |
| PT-2736WQ                                          | 90                                      | 3500          | 1 - 30                        | 5                         | 30 x 10                   | 39                                  |               |
| PT-2038WQ                                          | 90                                      | 3800          | 1 - 30                        | 5                         | 24 x 5                    | 29                                  |               |
| PT-2745WQ                                          | 90                                      | 4500          | 1 - 30                        | 1.5                       | 30 x 5                    | 35                                  |               |
| PT-2746WQ                                          | 90                                      | 4500          | 1 - 30                        | 1.5                       | 30 x 5                    | N/A                                 | No Flange     |
| PT-2060WQ                                          | 90                                      | 6000          | 1 - 30                        | 1.5                       | 24 x 5                    | 29                                  |               |
| PT-3529WQ                                          | 95                                      | 2900          | 1 - 30                        | 5                         | 42 x 16                   | 50                                  |               |

**Flange Mount**

| Part Number                                        | Sound Level<br>@ 10 cm<br>5Vpp Sq. Wave | Freq.<br>(Hz) | Operating<br>Voltage<br>(Vpp) | Current<br>@ 5Vpp<br>(mA) | Size<br>L x W x H<br>(mm) | Flange Hole<br>Spacing<br>( mm c/c) | Comments     |
|----------------------------------------------------|-----------------------------------------|---------------|-------------------------------|---------------------------|---------------------------|-------------------------------------|--------------|
| <b>Piezoelectric- External Drive (No Feedback)</b> |                                         |               |                               |                           |                           |                                     |              |
| PT-520-SQ                                          | 85                                      | 4400          | 1 - 30                        | 3                         | 41 x 36 x 14              | See Spec.                           | Front Flange |

**Press Fit****PT-593SQ (Solder Pads)****PT-723B-76Q (Wires)**

| Part Number                                        | Sound Level<br>@ 10 cm<br>5Vpp Sq. Wave | Freq.<br>(Hz) | Operating<br>Voltage<br>(Vpp) | Current<br>@ 5Vpp<br>(mA) | Size<br>L x W x H<br>(mm) | Comments        |
|----------------------------------------------------|-----------------------------------------|---------------|-------------------------------|---------------------------|---------------------------|-----------------|
| <b>Piezoelectric- External Drive (No Feedback)</b> |                                         |               |                               |                           |                           |                 |
| PT-723B-76Q                                        | 90                                      | 2600          | 1 - 30                        | 5                         | 26 x 17                   | No Flange/Wires |
| PT-593SQ                                           | 99 dBa @ 5 Vpp<br>123 dBa @ 150 Vpp     | 3500          | 5 - 150                       | 4 @ 5 Vpp<br>47 @ 150 Vpp | 54.5 x 23.5               | Solder Pads     |

Call 317-612-1000 or Visit [www.mallory-sonalert.com](http://www.mallory-sonalert.com) for More Details