

SSG and PSS

Replaceable wedge Angle Beam Transducers for use with AWS Snail and Serrated wedges

Features

- Single crystal angle beam shear wave quick change transducer and wedges
- Rectangular lead metaniobate (SSG) or Piezo Composite (PSS) crystals
- Max operating temperature 50°C / 120°F
- High temperature options available up to 285°C / 545°F for SSG probes
- SSG probes have Low dampening for narrow bandwidth
- PSS have high damping for wide bandwidth
- AWS Code compatible transducers and wedges



Common Applications

- General weld inspection
- Critical weld inspection

SSG Transducer Models

| Product Code | Description | Frequency (MHz) | Crystal Size (mm / Inches) | Nearfield Length in Steel (mm / Inches) |
|--------------|-----------------|-----------------|----------------------------|---|
| SSG50502 | 1/2" x 1/2" BNC | 2.25 | 1/2" x 1/2" | 28.1mm / 1.1" |
| SSG50102 | 1/2" x 1" BNC | 2.25 | 1/2" x 1" | 28.1mm / 1.1" |
| SSG62622 | 5/8"x5/8" BNC | 2.25 | 5/8" x 5/8" | 112.4mm / 4.4" |
| SSG62752 | 3/4"x5/8" BNC | 2.25 | 3/4" x 5/8" | 64.2mm / 2.5" |
| SSG75752 | 3/4" x 3/4" BNC | 2.25 | 3/4" x 3/4" | 64.2mm / 2.5" |
| SSG50505 | 1/2" x 1/2" BNC | 5 | 1/2" x 1/2" | 62.4mm / 2.5" |
| SSG50105 | 1/2" x 1" BNC | 5 | 1/2" x 1" | 249.7mm / 9.8" |
| SSG62625 | 5/8" x 5/8" BNC | 5 | 5/8" x 5/8" | 249.7mm / 9.8" |
| SSG62755 | 3/4" x 5/8" BNC | 5 | 3/4" x 5/8" | 142.7mm / 5.6" |
| SSG75755 | 3/4" x 3/4" BNC | 5 | 3/4" x 3/4" | 142.7mm / 5.6" |

PSS Transducer Models

| Product Code | Description | Frequency (MHz) | Crystal Size (mm / Inches) | Nearfield Length in Steel (mm / Inches) |
|--------------|-------------------------|-----------------|----------------------------|---|
| PSS62621 | 1MHz 5/8" x 5/8" BNC | 1 | 5/8" x 5/8" | 19.6mm / 0.77" |
| PSS75751 | 1MHz 3/4" x 3/4" BNC | 1 | 3/4" x 3/4" | 28.5mm / 1.12" |
| PSS50101 | 1MHz 1/2" x 1" BNC | 1 | 1/2" x 1" | 49.9mm / 1.97" |
| PSS50102 | 2.25MHz 1/2" x 1" BNC | 2.25 | 1/2" x 1" | 28.1mm / 1.11" |
| PSS50502 | 2.25MHz 1/2" x 1/2" BNC | 2.25 | 1/2" x 1/2" | 28.1mm / 1.11" |
| PSS62622 | 2.25MHz 5/8" x 5/8" BNC | 2.25 | 5/8" x 5/8" | 112.4mm / 4.42" |
| PSS62752 | 2.25MHz 3/4" x 5/8" BNC | 2.25 | 3/4" x 5/8" | 64.2mm / 2.53" |
| PSS75752 | 2.25MHz 3/4" x 3/4" BNC | 2.25 | 3/4" x 3/4" | 64.2mm / 2.53" |
| PSS50105 | 5MHz 1/2" x 1" BNC | 5 | 1/2" x 1" | 249.7mm / 9.83" |
| PSS50505 | 5MHz 1/2" x 1/2" BNC | 5 | 1/2" x 1/2" | 62.4mm / 2.46" |
| PSS62625 | 5MHz 5/8" x 5/8" BNC | 5 | 5/8" x 5/8" | 249.7mm / 9.83" |
| PSS62755 | 5MHz 3/4" x 5/8" BNC | 5 | 3/4" x 5/8" | 142.7mm / 5.62" |
| PSS75755 | 5MHz 3/4" x 3/4" BNC | 5 | 3/4" x 3/4" | 142.7mm / 5.62" |

Case Dimensions and Details

| Transducer Size | Width/Diameter (mm / Inches) | Height (mm / Inches) | Length (mm / Inches) | Connector Options | Position Options |
|-----------------------------|------------------------------|----------------------|----------------------|-------------------|------------------|
| 12.7 x 12.7mm / 1/2" x 1/2" | 19mm / 0.75" | 19mm / 0.75" | 28.4mm / 1.12" | B | Top |
| 12.7 x 25.4mm / 1/2" x 1" | 19.1mm / 0.75" | 19mm / 0.75" | 41.1mm / 1.62" | B | Top |
| 15.9 x 15.9mm / 5/8" x 5/8" | 21.5mm / 0.85" | 19mm / 0.75" | 34.3mm / 1.35" | B | Top |
| 15.9 X 19.2mm / 5/8" x 3/4" | 21.5mm / 0.85" | 19mm / 0.75" | 34.3mm / 1.35" | B | Top |
| 19.2 x 19.2mm / 3/4" x 3/4" | 24.1mm / 0.95" | 19mm / 0.75" | 34.4mm / 1.35" | B | Top |



Standard Wedge Details

| Product Code | Description | θ wedge Angle in Steel (°) | Applicable Transducer Ø (mm / Inches) | Width (mm / Inches) | Height (mm / Inches) | Length (mm / Inches) |
|--------------|--------------------------------------|----------------------------|---------------------------------------|---------------------|----------------------|----------------------|
| SW5045 | 45° wedge for 1/2" x 1/2" Transducer | 45 | 1/2" x 1/2" | 1.12" | 1.50" | 1.50" |
| SW5060 | 60° wedge for 1/2" x 1/2" Transducer | 60 | 1/2" x 1/2" | 1.12" | 1.50" | 1.74" |
| SW5070 | 70° wedge for 1/2" x 1/2" Transducer | 70 | 1/2" x 1/2" | 1.12" | 1.50" | 1.84" |
| SW5145 | 45° wedge for 1/2" x 1" Transducer | 45 | 1/2" x 1" | 1.63" | 1.55" | 1.50" |
| SW5160 | 60° wedge for 1/2" x 1" Transducer | 60 | 1/2" x 1" | 1.63" | 1.46" | 1.75" |
| SW5170 | 70° wedge for 1/2" x 1" Transducer | 70 | 1/2" x 1" | 1.63" | 1.46" | 1.84" |
| SW6245 | 45° wedge for 5/8" x 5/8" Transducer | 45 | 5/8" x 5/8" | 1.35" | 1.73" | 1.74" |
| SW6260 | 60° wedge for 5/8" x 5/8" Transducer | 60 | 5/8" x 5/8" | 1.35" | 1.72" | 1.84" |
| SW6270 | 70° wedge for 5/8" x 5/8" Transducer | 70 | 5/8" x 5/8" | 1.35" | 1.73" | 1.94" |

Snail Wedge Details

| Product Code | Description | θ wedge Angle in Steel (°) | Applicable Transducer Ø (mm / Inches) | Width (mm / Inches) | Height (mm / Inches) | Length (mm / Inches) |
|--------------|--------------------------------------|----------------------------|---------------------------------------|---------------------|----------------------|----------------------|
| SNW6245 | 45° wedge for 5/8" x 5/8" Transducer | 45 | 5/8" x 5/8" | 1.34" | 2.22" | 2.15" |
| SNW6260 | 60° wedge for 5/8" x 5/8" Transducer | 60 | 5/8" x 5/8" | 1.34" | 2.22" | 2.20" |
| SNW6270 | 70° wedge for 5/8" x 5/8" Transducer | 70 | 5/8" x 5/8" | 1.34" | 2.22" | 2.38" |

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