

DEM

Twin Compression Transducers

Features

- Dual normal beam compression wave contact transducers
- Semi circular lead zirconate titanate crystals
- Max operating temperature 50°C / 120°F
- High temperature options available up to 285°C / 545°F denoted by "HT" in the title
- Medium dampening for medium bandwidth
- Versions available with improved resolution and sensitivity see PDEM Transducers



Common Applications

- Aerospace
- Composites
- Thickness inspection
- High temp inspection

Transducer Models				
Product Code	Description	Frequency (MHz)	Crystal Diameter (mm / Inches)	Nearfield Length in Steel (mm / Inches)
DEM2525	2.25MHz ¼" Twin element	2.25	6.4mm / ¼"	3.9mm / 0.154"
DEM3725	2.25MHz ⅜" Twin element	2.25	9.5mm / ⅜"	8.5mm / 0.335"
DEM5025	2.25MHz ½" Twin element	2.25	12.7mm / ½"	15.2mm / 0.598"
DEM2550	5MHz ¼" Twin element	5	6.4mm / ¼"	8.6mm / 0.339"
DEM3750	5MHz ⅜" Twin element	5	9.5mm / ⅜"	18.9mm / 0.744"
DEM5050	5MHz ½" Twin element	5	12.7mm / ½"	33.8mm / 1.331"
DEM3710	10MHz ⅜" Twin element	10	9.5mm / ⅜"	37.9mm / 1.492"
DEM5010	10MHz ½" Twin element	10	12.7mm / ½"	67.7mm / 2.665"

Case Dimensions and Details				
Transducer Version Crystal size	Width/Diameter (mm / Inches)	Height (mm / Inches)	Connector Options	Position Options
6.4mm / ¼"	10mm / 0.394"	25.4mm / 1"	D	Side
9.5mm / ⅜"	12.7mm / 0.5"	25.4mm / 1"	D	Side
12.7mm / ½"	16.2mm / 0.638"	25.4mm / 1"	D	Side

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PDEM

Twin Compression Transducers

Features

- Dual normal beam compression wave contact transducers
- Semi circular lead zirconate titanate crystals
- Max operating temperature 50°C / 120°F
- High temp versions available see DEM transducers
- Medium dampening for medium bandwidth

Common Applications

- Aerospace
- Composites
- Thickness inspection



COMPRESSION TRANSDUCERS

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PDEM3725	2.25MHz ⅜" Twin element	2.25	9.5mm / ⅜"	8.5mm / 0.335"
PDEM5025	2.25MHz ½" Twin element	2.25	12.7mm / ½"	15.2mm / 0.598"
PDEM2550	5MHz ¼" Twin element	5	6.4mm / ¼"	8.6mm / 0.339"
PDEM3750	5MHz ⅜" Twin element	5	9.5mm / ⅜"	18.9mm / 0.744"
PDEM5050	5MHz ½" Twin element	5	12.7mm / ½"	33.8mm / 1.331"
PDEM2510	10MHz ¼" Twin element	10	6.4mm / ¼"	17.2mm / 0.677"

Case Dimensions and Details				
Crystal size	Width/Diameter (mm / Inches)	Height (mm / Inches)	Connector Options	Position Options
6.4mm / ¼"	10mm / 0.394"	25.4mm / 1"	D	Side
9.5mm / ⅜"	12.7mm / 0.5"	25.4mm / 1"	D	Side
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