



# RDT

## Delay Line Transducers

### Features

- Single normal beam compression wave contact transducer
- Circular lead metaniobate crystal
- Max operating temperature 50°C / 120°F
- High temperature delay lines available on request
- High dampening for a wide bandwidth
- Rexolite delay lines available, custom length available on request

### Common Applications

- Composites
- Thin walled parts
- Machine parts



COMPRESSION TRANSDUCERS

Transducer Models				
Product Code	Description	Frequency (MHz)	Crystal Diameter (mm / Inches)	Nearfield Length in Steel (mm / Inches)
RDT2525	2.25Mhz ¼" DelayLine	2.25	6.4mm / ¼"	3.9mm / 0.154"
RDT5025	2.25Mhz ½" DelayLine	2.25	12.7mm / ½"	15.2mm / 0.598"
RDT1250	5Mhz ⅛" DelayLine	5	3.2mm / ⅛"	2.1mm / 0.083"
RDT2550	5Mhz ¼" DelayLine	5	6.4mm / ¼"	8.6mm / 0.339"
RDT5050	5Mhz ½" DelayLine	5	12.7mm / ½"	33.8mm / 1.331"
RDT1210	10Mhz ⅛" DelayLine	10	3.2mm / ⅛"	4.3mm / 0.169"
RDT2510	10Mhz ¼" DelayLine	10	6.4mm / ¼"	17.2mm / 0.677"
RDT5010	10Mhz ½" DelayLine	10	12.7mm / ½"	67.7mm / 2.665"
RDT1215	15Mhz ⅛" DelayLine	15	3.2mm / ⅛"	6.4mm / 0.252"
RDT2515	15Mhz ¼" DelayLine	15	6.4mm / ¼"	25.8mm / 1.016"
RDT1220	20Mhz ⅛" DelayLine	20	3.2mm / ⅛"	8.6mm / 0.339"
RDT2520	20Mhz ¼" DelayLine	20	6.4mm / ¼"	34.4mm / 1.354"

Case Dimensions and Details				
Transducer Version Crystal size	Width/Diameter (mm / Inches)	Height (mm / Inches)	Connector Options	Position Options
3.2mm / ⅛"	12.7mm / 0.5"	19mm / 0.748"	D	Side
6.4mm / ¼"	12.7mm / 0.5"	19mm / 0.748"	D	Side
12.7mm / ½"	19.5mm / 0.768"	40mm / 1.575"	D	Side

Delay Line	
Product Code	Description
DT12	Used for 3.2mm / ⅛" crystal diameter probe delay line attachment (sold in packs of 3)
DT25	Used for 6.4mm / ¼" crystal diameter probe delay line attachment (sold in packs of 3)
DT50	Used for 12.7mm / ½" crystal diameter probe delay line attachment (sold in packs of 3)

