

# Typical Range Of Elcometer MTG/PTG Transducers On Various Materials\*

Part Number	Description	Suitable Materials	Typical Range (mm) (PE/IE Mode)						
			PVC	Brass (CZ121)	Copper	Stainless Steel (304)	Mild Steel (EN1A)	Carbon Steel (4340)	Aluminium (2014A)
<b>MTG Transducers</b>									
<b>1.00MHz Dual Element Thickness Transducers</b>									
TXC1M00EP-2	1MHz 1/2" Potted RA D/Element Std	Plastics, Fibreglass Fibre Glass	5.00-40.00mm (0.196-1.574")	5.00-20.00mm (0.196-0.787")	N/A	N/A	N/A	N/A	N/A
<b>2.25MHz Dual Element Thickness Transducers</b>									
TXC2M25CP-2	2.25MHz 1/4" Potted RA D/Element Std	Cast Iron, Plastics, Thin Fibreglass Fibre Glass	2.00-25.00mm (0.078-0.984")	2.00-100.00mm (0.078-3.937")	2.00-100.00mm (0.078-3.937")	2.00-100.00mm (0.078-3.937")	2.00-100.00mm (0.078-3.937")	2.00-100.00mm (0.078-3.937")	N/A
TXC2M25EP-2	2.25MHz 1/2" Potted RA D/Element Std	Cast Iron, Plastics, Thin Fibreglass Fibre Glass	2.00-25.00mm (0.078-0.984")	5.00-200.00mm (0.196-7.874")	5.00-200.00mm (0.196-7.874")	5.00-120.00mm (0.196-4.724")	5.00-120.00mm (0.196-4.724")	5.00-120.00mm (0.196-4.724")	N/A
<b>3.50MHz Dual Element Thickness Transducers</b>									
TXC3M50EP-1	3.5MHz 1/2" Potted RA D/Element Std	Cast Iron, Plastics, Thin Fibreglass Fibre Glass	2.00-15.00mm (0.078-0.590")	2.00-100.00mm (0.078-3.937")	2.00-100.00mm (0.078-3.937")	2.50-100.00mm (0.098-3.937")	2.50-100.00mm (0.098-3.937")	2.50-100.00mm (0.098-3.937")	2.50-250mm (0.098-9.842")
<b>5.00MHz Dual Element Thickness Transducers</b>									
TXC5M00BP-4	5MHz 3/16" Potted RA D/Element Std	Thin Plastic, Steel, Glass	1.00-15.00mm (0.039-0.590")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-150.00mm (0.039-5.905")
TXC5M00CP-4	5MHz 1/4" Potted RA D/Element Std	Thin Plastic, Steel, Glass	2.00-10.00mm (0.078-0.393")	2.00-60.00mm (0.078-2.362")	2.00-60.00mm (0.078-2.362")	2.00-100.00mm (0.078-3.937")	1.00-150.00mm (0.039-5.905")	1.00-150.00mm (0.039-5.905")	1.00-500.00mm (0.039-19.690")
TXC5M00CP-8	5MHz 1/4" Potted Top D/Element Std	Thin Plastic, Steel, Glass	2.00-10.00mm (0.078-0.393")	2.00-60.00mm (0.078-2.362")	2.00-60.00mm (0.078-2.362")	2.00-100.00mm (0.078-3.937")	1.00-150.00mm (0.039-5.905")	1.00-150.00mm (0.039-5.905")	1.00-500.00mm (0.039-19.690")
TXC5M00CP-10	5MHz 1/4" Potted RA D/Elements HD	ThruPaint, Thin Plastic, Steel, Glass	2.00-60.00mm (0.078-2.362")	2.00-60.00mm (0.078-2.362")	2.00-60.00mm (0.078-2.362")	2.00-100.00mm (0.078-3.937")	2.00-150mm (0.078-5.905")	2.00-150mm (0.078-5.905")	2.00-500.00mm (0.078-19.685")
TXC5M00EP-3	5MHz 1/2" Potted RA D/Element Std	Thin Plastic, Steel, Glass	2.00-25.00mm (0.078-0.984")	2.00-150.00mm (0.078-5.905")	2.00-250mm (0.078-9.842")	2.00-250mm (0.078-9.842")	2.00-250mm (0.078-9.842")	2.00-250mm (0.078-9.842")	2.00-500.00mm (0.078-19.685")
<b>7.50MHz Dual Element Thickness Transducers</b>									
TXC7M50BP-3	7.5MHz 3/16" Potted RA D/Element Std	Thin Plastic, Steel, Glass, Aluminium	N/A	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-150.00mm (0.039-5.905")
TXC7M50CP-4	7.5MHz 1/4" Potted RA D/Element Std	Thin Plastic, Steel, Glass, Aluminium	N/A	0.64-60.00mm (0.025-2.362")	0.64-150.00mm (0.025-5.905")	0.64-150.00mm (0.025-5.905")	0.64-150.00mm (0.025-5.905")	0.64-150.00mm (0.025-5.905")	0.64-250.00mm (0.025-9.842")
TXC7M50CP-6	7.5MHz 1/4" Potted RA D/Elements HD	ThruPaint, Thin Plastic, Steel, Glass, Aluminium	N/A	2.00-60.00mm (0.078-2.362")	2.00-150.00mm (0.078-5.905")	2.00-150.00mm (0.078-5.905")	2.00-150.00mm (0.078-5.905")	2.00-150.00mm (0.078-5.905")	2.00-150.00mm (0.078-5.905")
<b>10.0MHz Dual Element Thickness Transducers</b>									
TXC10M0BP-1	10MHz 3/16" Potted RA D/Element Std	Steel, Glass, Aluminium, Titanium	N/A	N/A	N/A	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-50.00mm (0.039-1.968")	1.00-150.00mm (0.039-5.905")
TXC10M0CP-4	10MHz 1/4" Potted RA D/Element Std	Steel, Glass, Aluminium, Titanium	N/A	N/A	N/A	2.00-150.00mm (0.078-5.905")	2.00-150.00mm (0.078-5.905")	2.00-150.00mm (0.078-5.905")	2.00-250mm (0.078-9.842")

\* Quoted ranges are only typical. Exact range can be affected by a number of factors including: exact material type; smoothness of interfaces; and operating temperature.

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			PVC	Brass (CZ121)	Copper	Stainless Steel (304)	Mild Steel (EN1A)	Carbon Steel (4340)	Aluminium (2014A)
<b>PTG Transducers</b>									
<b>15.0MHz Single Element Transducers</b>									
<b>TXC15M0CM</b>	15MHz 1/4" MDOT RA Delay Line	Thin Plastic, Steel, Aluminium, Titanium	2.00-10.00mm (0.078-0.393")	2.00-10.00mm (0.078-0.393")	2.00-10.00mm (0.078-0.393")	2.00-25.00mm (0.078-0.984")	2.00-25.00mm (0.078-0.984")	2.00-25.00mm (0.078-0.984")	2.00-25.00mm (0.078-0.984")
<b>20.0MHz Single Element Transducers</b>									
<b>TXC20M0CM</b>	20MHz 1/4" MDOT RA Delay Line	Thin Plastic, Steel, Aluminium, Titanium	2.00-10.00mm (0.078-0.393")	2.00-10.00mm (0.078-0.393")	2.00-10.00mm (0.078-0.393")	2.00-25.00mm (0.078-0.984")	2.00-25.00mm (0.078-0.984")	2.00-25.00mm (0.078-0.984")	2.00-25.00mm (0.078-0.984")

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