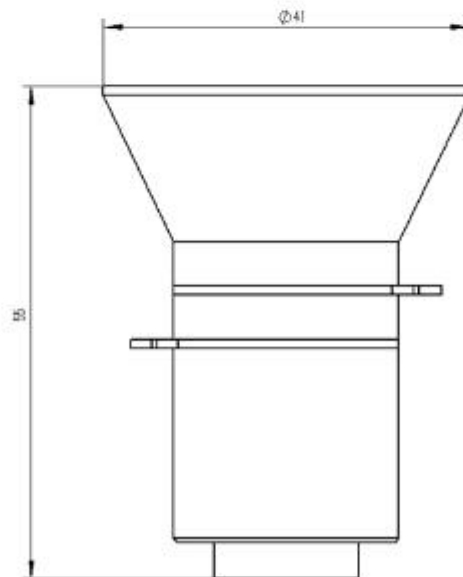


Items	Unit	Content
Resonant Frequency	KHz	39-40.5
Resonant Resistance	Ω	≤ 45
Maximum electric power	W	100

OUTLINE DRAWINGS AND DIMENSIONS

Unit: mm



We have extensive design capabilities for the ultrasonic transducer and amplitude transformer. Rigorous process, a complete quality control system and good after-sales service. We can provide you with the best solution.

Picture	Type	Resonant Frequency	Resonant Resistance	Capacitance	Maximum electric power	Applications
	PTC40K252LLG	39KHz-40.5KHz	$\leq 45\Omega$	4900pF $\pm 10\%$	100W	Used in High-Power ultrasonic cleaning equipment.
	PTC50K154TLL	49KHz-51.1KHz	$\leq 35\Omega$	2750pF $\pm 10\%$	20W	Used in the portable equipment for collar cleaning
	PTC45K152BLG	44.1KHz-45.9KHz	$\leq 100\Omega$	1375pF $\pm 10\%$	10W	Used in the portable equipment for collar cleaning.

The sandwiched transducer is one type of the ultrasonic transducers with metal pieces clamping at both ends of the piezoceramic discs, it is mainly used in power and underwater ultrasound applications. Because the structure is first proposed by Paul Langevin, the French physicist, it is also called Langevin transducer sometimes.

One of the advantages of this structure is that it makes full use of the longitudinal mode of piezoceramics and gets the lower resonant frequency as well. Also, because the piezoceramics has the characteristic of low tensile strength itself, it is much easier to be cracked under the high power. However, by the application of this structure, the piezoceramics remains in the compressed state under the intense vibration so that the cracks of piezoceramics could be avoided.