

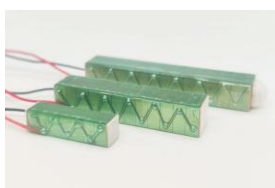


多层压电陶瓷

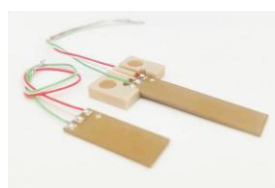
多层压电陶瓷是一种重要的换能材料，具有优良的机电耦合效应和对外场响应迅速且体积小、驱动电压低的特点，在机电换能及自动控制等领域得到了广泛应用。



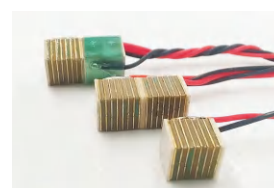
多层压电陶瓷片



多层压电陶瓷叠堆



多层全陶瓷双晶片



多层压电陶瓷剪切片

命名规则：

A	B	Bimorph	压电双晶片	RD	Roung Chips	圆形压电片
	BH	Bimorph With Holder	带基座压电双晶片	RG	Ring Chips	环形压电片
	C	Chips	方形压电片	S	Stack	方形压电叠堆
	CH	Chips With Hole	方形带中孔单片	SH	Stack With Hole	方形带中孔压电叠堆
	CS	Shear Chips	压电剪切片	SS	Shear Stack	压电剪切叠堆
	F	Stacks in Flexure	结构放大式压电叠堆	SRD	Round Stack	圆形压电叠堆
	SG	Stacks With Strain Gauges	带应变片压电叠堆	SRG	Ring Stack	环形压电叠堆
	CF	Co-Fired Piezoelectric	共烧压电陶瓷			
	B	Bimorph	压电双晶片	RD	Roung Chips	圆形压电片
	BH	Bimorph With Holder	带基座压电双晶片	RG	Ring Chips	环形压电片
	C	Chips	方形压电片	S	Stack	方形压电叠堆
	CH	Chips With Hole	方形带中孔单片	SH	Stack With Hole	方形带中孔压电叠堆
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	CF	Co-Fired Piezoelectric	共烧压电陶瓷			
B	驱动电压	1	-30 ~ 75V			
		2	-30 ~ 100V			
		3	-30 ~ 150V			
		4	-30 ~ 200V			
		5	-30 ~ 120V			
C	电极面尺寸	外径尺寸				
D	侧面尺寸	内径尺寸				
E	厚度尺寸					
F	端面处理	C1	一端氧化铝半球端帽	C3	氧化铝平面端帽	产品默认两端氧化铝平面
		C2	两端氧化铝半球端帽	C4	PZT不锈钢端帽	

多层压电陶瓷片

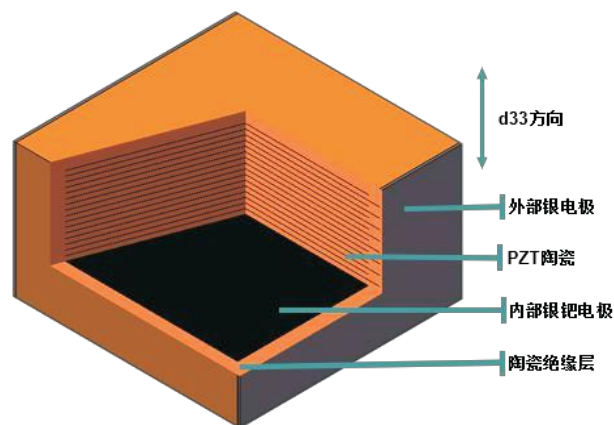
压电陶瓷片内部由陶瓷层及电极层，相互交叉叠堆，外部两侧通过印刷电极，将内部电极引出。其余四面有陶瓷绝缘层，防潮效果好，并在侧面陶瓷层上印有“十字”图案做为正极标识。

陶瓷芯片位移为其厚度的1‰，标准厚度有2mm/3mm，平面度 $<\pm 5\mu\text{m}$ （支持其他厚度定制）。

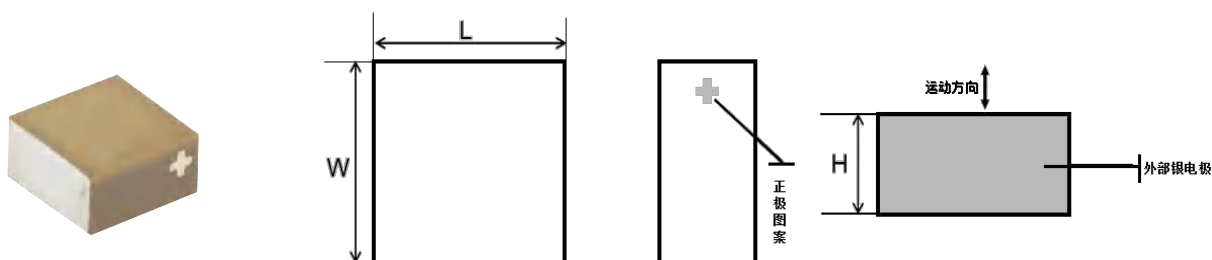
驱动电压范围：-10V~75V，-20V~100V，-30V~150V。

特性

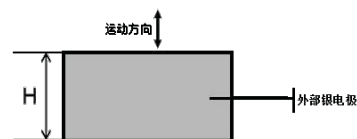
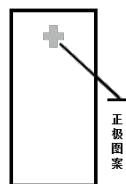
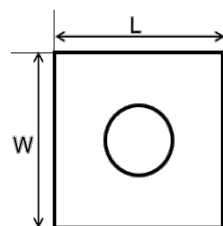
- 亚毫秒级响应
- 亚微米级分辨率
- 方形&圆形&中孔可选
- 低功耗，抗磁场干扰
- 可真空环境使用
- 尺寸/电压可定制



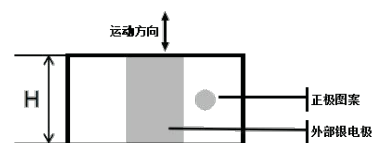
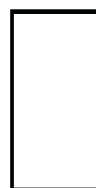
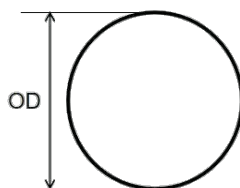
产品外形	方形	方形中孔	圆形	环形
产品图片				
产品尺寸/mm	0.9×0.9~14×14	5×5(Ø2) 7×7(Ø3)	Ø8.3	Ø8.3-Ø3.0 Ø6.0-Ø2.5
驱动电压/V	0~75/100/120/150	0~150	0~150	0~150
标称位移/ μm	0.7~3.6	3.0	1.8~3.0	2.5



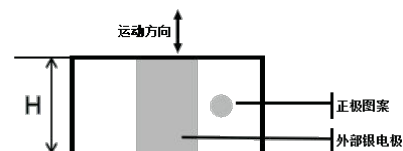
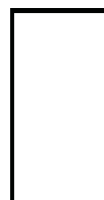
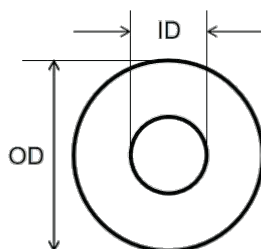
方 形	电压	产品尺寸	电容 (± 15%)	频率	位移 (± 15%)	最大推力
DCC0-020202	45V	2.0×2.0×2.0mm	215 nF ± 15%	540kHz	2.0 um ± 15%	160 N
DCC1-090908	75V	0.9 ×0.9×0.8mm	9.0 nF ± 15%	1350kHz	0.7 um ± 15%	32 N
DCC1-090915	75V	0.9×0.9×1.5mm	15.0 nF ± 15%	850kHz	1.1 um ± 15%	32 N
DCC1-030302	75V	3.0×3.0×2.0mm	260 nF ± 15%	450 kHz	2.0 um ± 15%	360 N
DCC1-050524	75V	5.0×5.0×2.4 mm	950 nF ± 15%	315kHz	2.8 um ± 15%	1000 N
DCC2-151501	100V	1.5×1.5×1.0mm	13.5 nF ± 15%	920kHz	1.0 um ± 15%	90 N
DCC2-020202	100V	2.0×2.0×2.0mm	50 nF ± 15%	560kHz	2.0 um ± 15%	160 N
DCC2-030302	100V	3.0× 3.0×2.0mm	135 nF ± 15%	450kHz	2.2 um ± 15%	360 N
DCC2-020203	100V	2.0×2.0×3.0 mm	65 nF ± 15%	415kHz	3.0 um ± 15%	160 N
DCC3-020202	150V	2.0×2.0×2.0mm	22 nF ± 15%	560kHz	2.0 um ± 15%	160 N
DCC3-252523	150V	2.5×2.5×2.3mm	45nF ± 15%	470kHz	2.3 um ± 15%	250 N
DCC3-030302	150V	3.0×3.0×2.0mm	60 nF ± 15%	450kHz	2.2 um ± 15%	360 N
DCC3-030303	150V	3.0×3.0×3.0mm	90 nF ± 15%	355kHz	3.5 um ± 15%	360 N
DCC3-050502	150V	5.0×5.0×2.0mm	225 nF ± 15%	310kHz	2.5 um ± 15%	1000 N
DCC3-050503	150V	5.0×5.0×3.0mm	315 nF ± 15%	270kHz	3.6 um ± 15%	1000 N
DCC3-070702	150V	7.0×7.0×2.0mm	390 nF ± 15%	225kHz	2.2 um ± 15%	1960 N
DCC3-070703	150V	7.0×7.0×3.0mm	620 nF ± 15%	220kHz	3.4 um ± 15%	1960 N
DCC3-101002	150V	10.0×10.0×2.0mm	800 nF ± 15%	165 kHz	2.1 um ± 15%	4000 N
DCC3-101003	150V	10.0×10.0×3.0mm	1.2 μF ± 15%	160 kHz	3.5 um ± 15%	4000 N



方形&中孔	电压	产品尺寸	电容 (±15%)	频率	位移 (±15%)	最大推力
DCCR3-050502	150V	5.0×5.0×2.0&2mm hole	160 nF ± 15%	610 kHz	1.8 um ± 15%	800 N
DCCR3-050503	150V	5.0×5.0×3.0&2mm hole	180 nF ± 15%	580 kHz	3.0 um ± 15%	800 N
DCCR3-070702	150V	7.0×7.0×2.0&2mm hole	320 nF ± 15%	530 kHz	2.0 um ± 15%	1600 N
DCCR3-070703	150V	7.0×7.0×3.0&3mm hole	440 nF ± 15%	430 kHz	3.0 um ± 15%	1600 N



圆 形	电压	产品尺寸	电容 (±15%)	频率	位移 (±15%)	最大推力
DCRD4-0502	200V	Ø5.0 × 2.0 mm	150 nF ± 15%	350kHz	2.8 um ± 15%	780 N
DCRD4-0802	200V	Ø8.3 × 2.0 mm	580 nF ± 15%	235kHz	3.3 um ± 15%	1800 N



环 形	电压	产品尺寸	电容 (±15%)	频率	位移 (±15%)	最大推力
DCRG3-062503	150V	6.0×2.5×3.0mm	195 nF ± 15%	475 kHz	2.7 um ± 15%	930 N
DCRG3-080302	150V	8.3×3.0×2.0mm	550 nF ± 15%	515 kHz	2.6 um ± 15%	1800 N
DCRG3-150903	150V	15.0×9.0×3.2mm	2200nF ± 15%	260 kHz	3.9 um ± 15%	4520 N