

Piezo Electric Ceramic Element

One Side Feedback

MZ12491BD0



Material and Weight

D	12.0 ± 0.1
d	9.0 ± 0.5
T	0.12 ± 0.05
t	0.05 ± 0.02

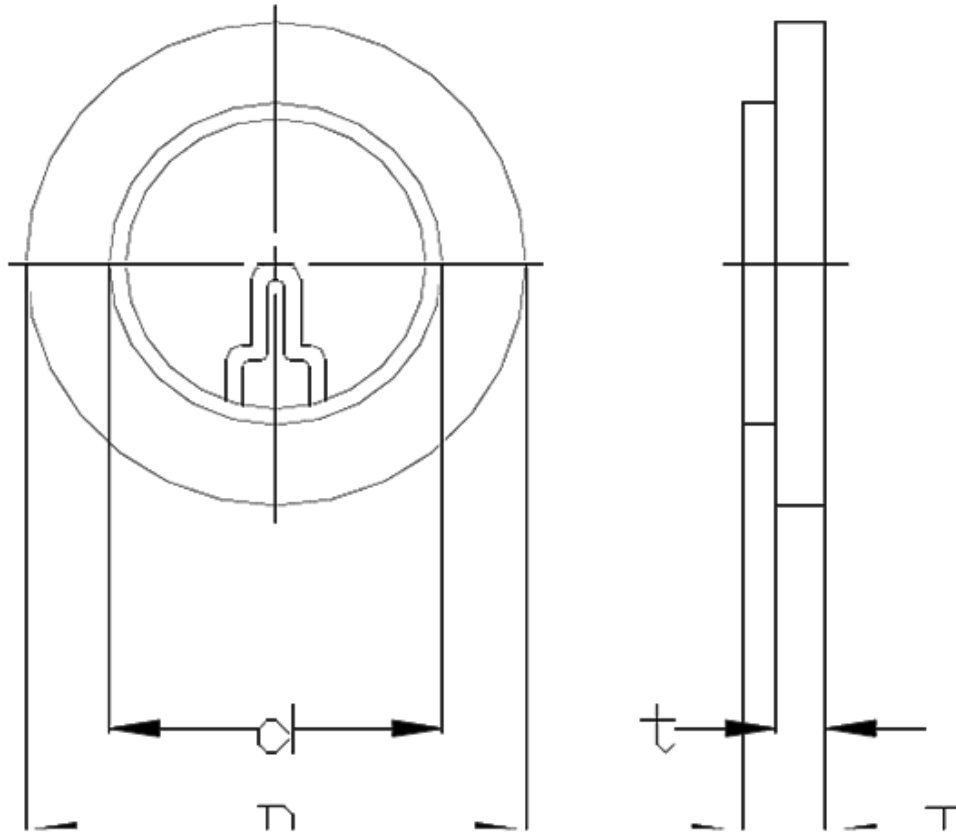


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	4.9 ± 0.5	KHz
Input Voltage (Max.)	30	Vp-p
Resonant Impedance (Max.)	1000	Ω
Capacitance	$13,000 \pm 30\%$ at 120Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$

Storage Temperature	-20 ~ +70	°C
Base Material	Brass	

Dimensions



Contact us

If you need any further information, please don't hesitate to contact us.



MZ20321TF0



Material and Weight

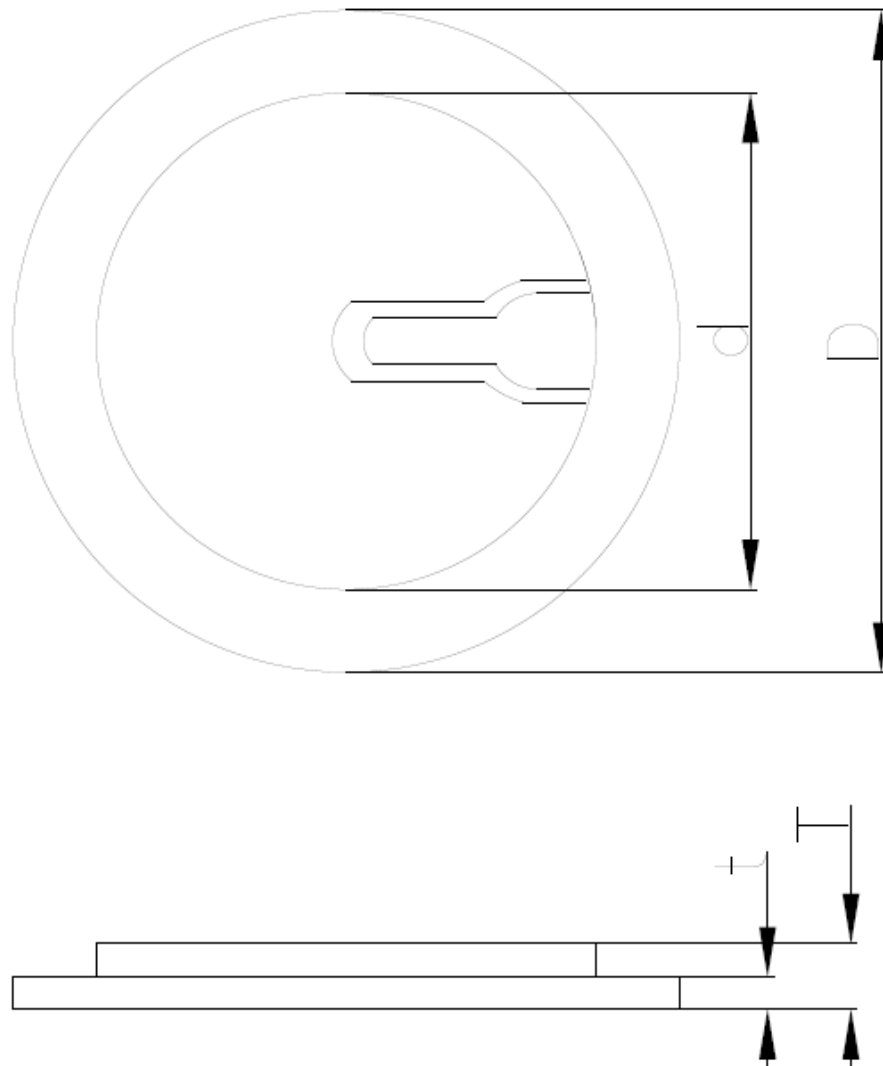
D	20.0 ± 0.1
d	15.0 ± 0.5
T	0.21 ± 0.05
t	0.10 ± 0.02



Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.2 ± 0.4	KHz
Input Voltage	30	Vp-p
Resonant Impedance	400	Ω
Capacitance	24,000 ± 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-20 ~ +70	°C
Base Material	Ni-Alloy	

Dimensions



Contact us

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MZ21311BF0



Material and Weight

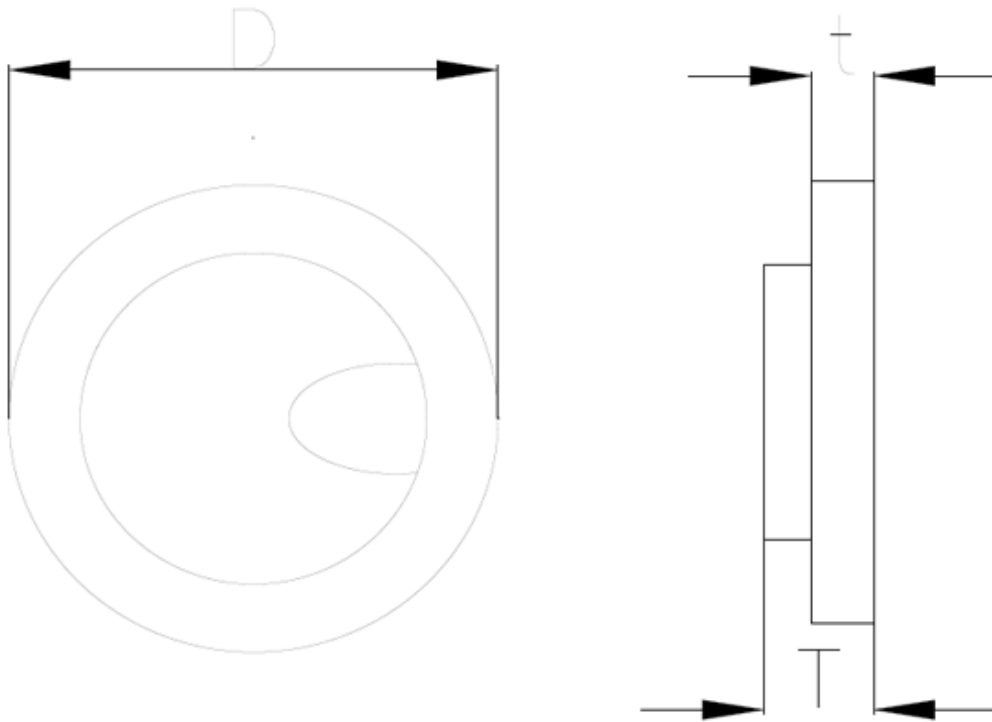
D	21.0 ± 0.1
d	15.0 ± 0.5
T	0.18 ± 0.05
t	0.10 ± 0.02



Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.1 ± 0.2	KHz
Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	25,000 ± 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-20 ~ +70	°C
Base Material	Brass	

Dimensions



Contact us

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MZ21311BF0



Material and Weight

D	21.0 ± 0.1
d	15.0 ± 0.5
T	0.18 ± 0.05
t	0.10 ± 0.02

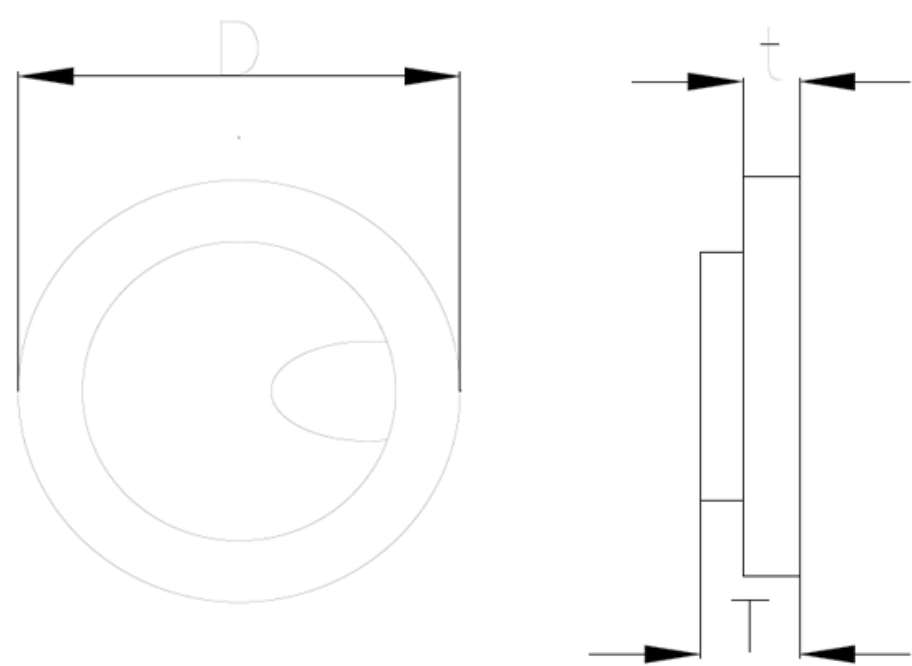


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.1 ± 0.2	KHz

Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	25,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



Contact us

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MZ21321BF0



Material and Weight

D	21.0 ± 0.1
d	15.0 ± 0.5
T	0.23 ± 0.05
t	0.12 ± 0.05

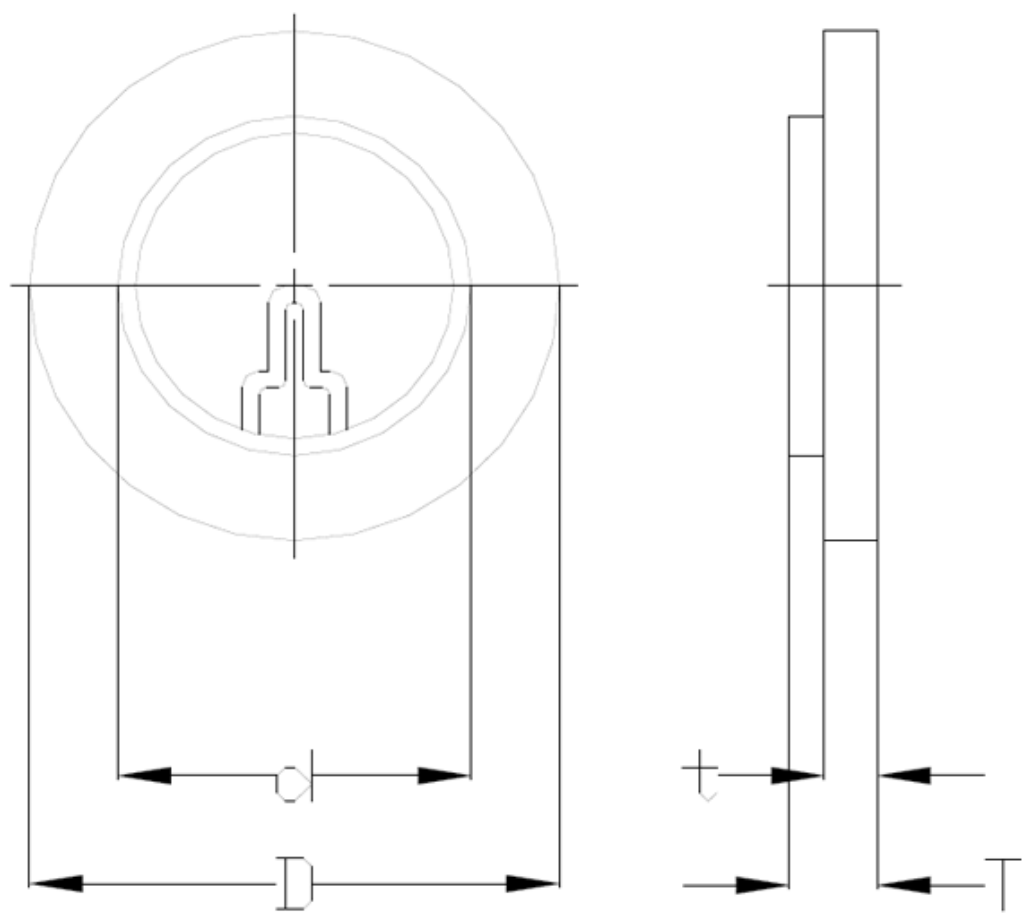


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	

Resonant Frequency	3.2 ± 0.3	KHz
Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	25,000 ± 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-20 ~ +70	°C
Base Material	Brass	

Dimensions



Contact us

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MZ27281BD0



Material and Weight

D	27.0 ± 0.1
d	20.0 ± 0.5
T	0.34 ± 0.05
t	0.20 ± 0.02

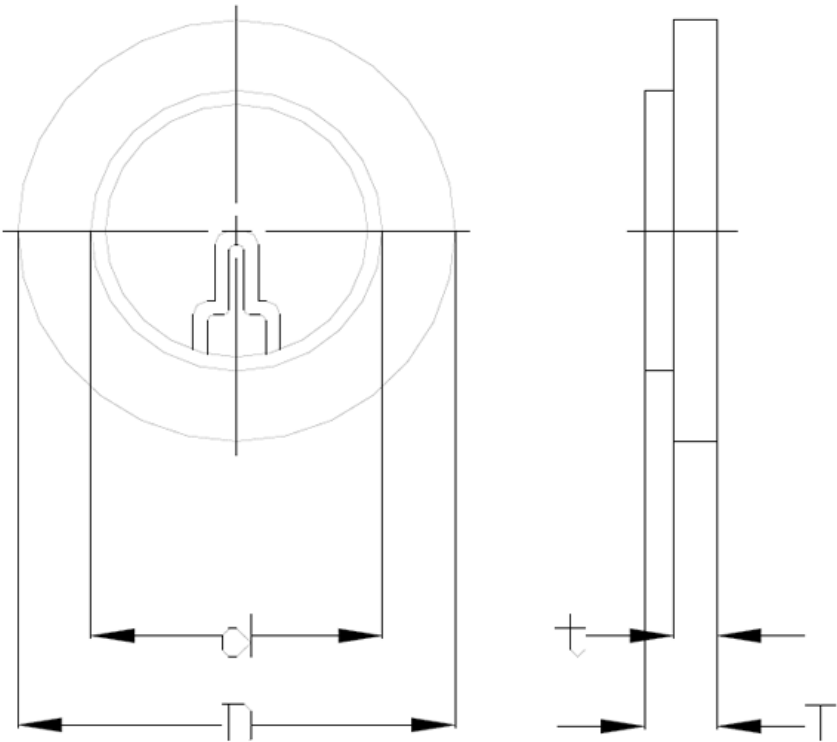


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.0 ± 0.2	KHz

Input Voltage	30	Vp-p
Resonant Impedance	400	Ω
Capacitance	27,500 $\pm$ 20% at 120Hz	pF
Operating Temperature	-20 $\sim$ +60	$^{\circ}\text{C}$
Storage Temperature	-20 $\sim$ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



Contact us

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MZ27291BD0



Material and Weight

D	27.0 ± 0.1
d	20.0 ± 0.5
T	0.32 ± 0.05
t	0.20 ± 0.02

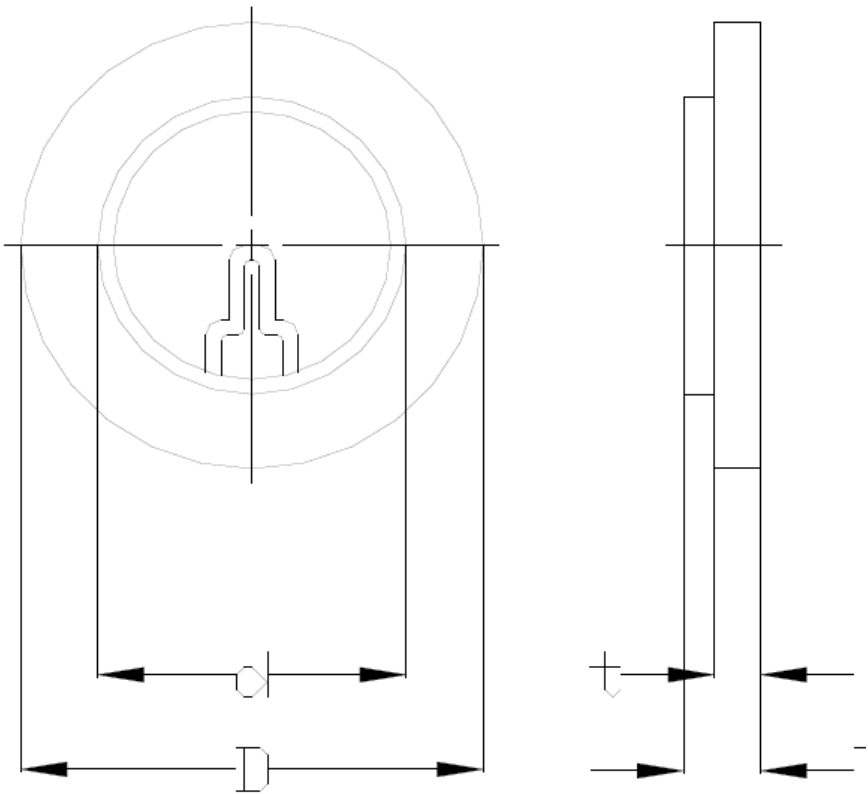


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	2.9 ± 0.3	KHz

Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	30,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



Contact us

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MZ27291SF0



Material and Weight

D	27.0 ± 0.1
d	20.0 ± 0.5
T	0.28 ± 0.05
t	0.17 ± 0.02

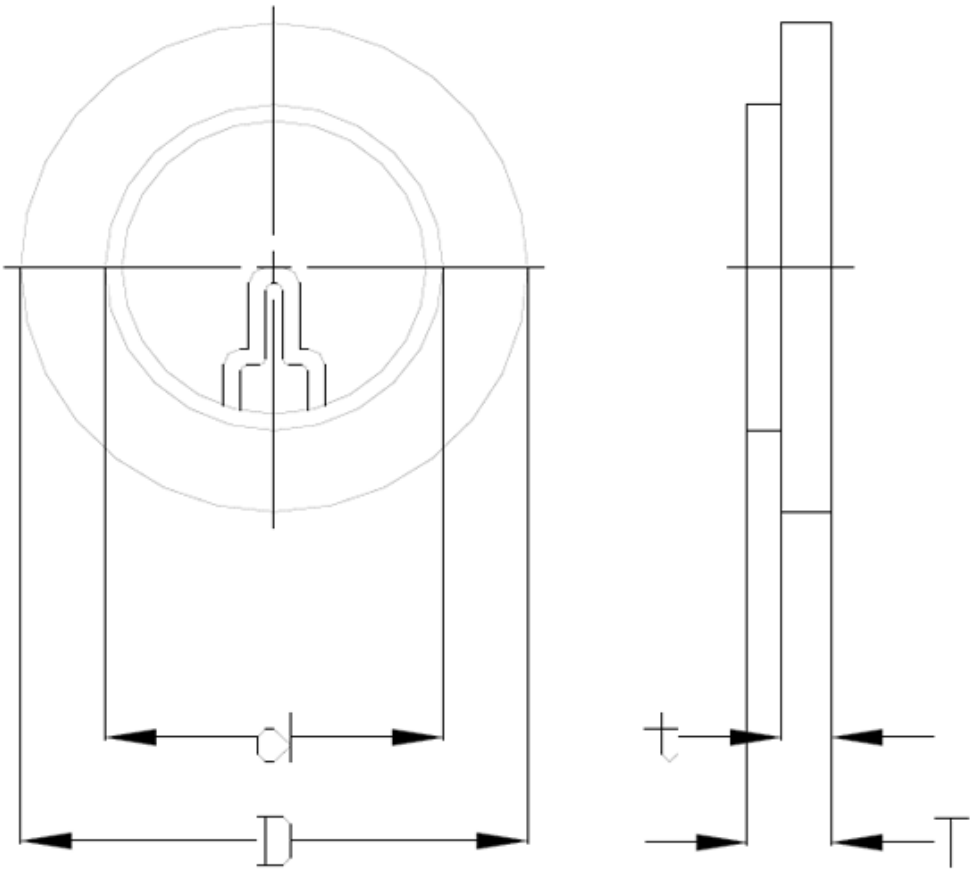


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.0 ± 0.4	KHz

Input Voltage	30	Vp-p
Resonant Impedance	200	Ω
Capacitance	30,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 $\sim$ +60	$^{\circ}\text{C}$
Storage Temperature	-20 $\sim$ +70	$^{\circ}\text{C}$
Base Material	Stainless	

Dimensions



Contact us

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MZ27351BF0



Material and Weight

D	27.0 ± 0.1
d	20.0 ± 0.5
T	0.35 ± 0.05
t	0.20 ± 0.05

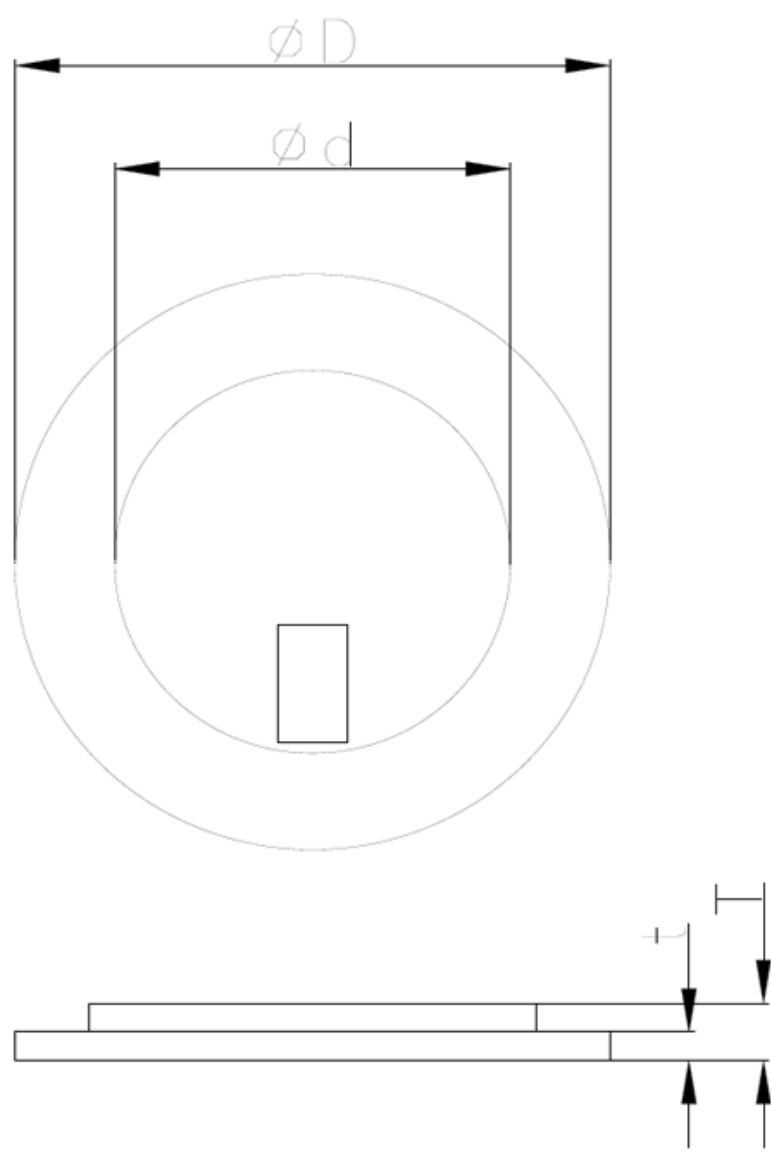


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.5 ± 0.3	KHz

Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	25,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 $\sim$ +60	$^{\circ}\text{C}$
Storage Temperature	-20 $\sim$ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



Contact us

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MZ27351SF0



Material and Weight

D	27.0 ± 0.1
d	20.0 ± 0.5
T	0.28 ± 0.05
t	0.15 ± 0.03

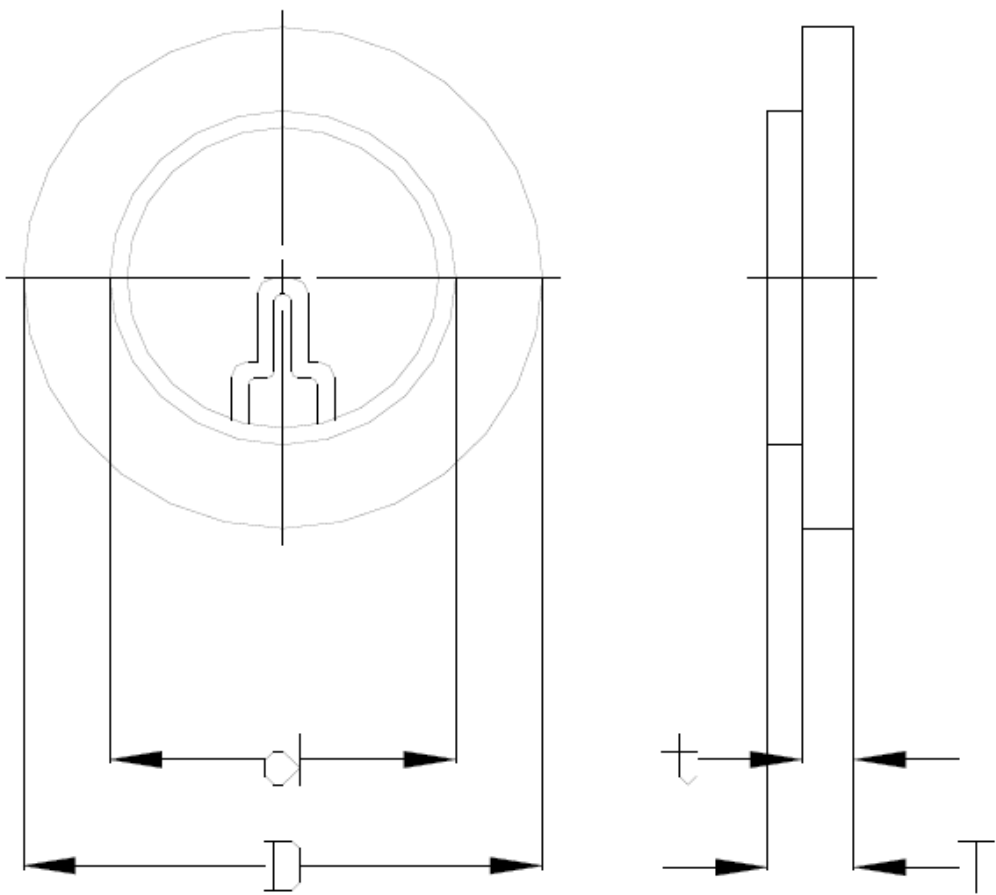


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.5 ± 0.2	KHz

Input Voltage	30	Vp-p
Resonant Impedance	200	Ω
Capacitance	30,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Stainless	

Dimensions



Contact us

If you need any further information, please don't hesitate to contact us.



MZ27361BF0



Material and Weight

D	27.0 ± 0.1
d	20.0 ± 0.5
T	0.4 ± 0.05
t	0.20 ± 0.05

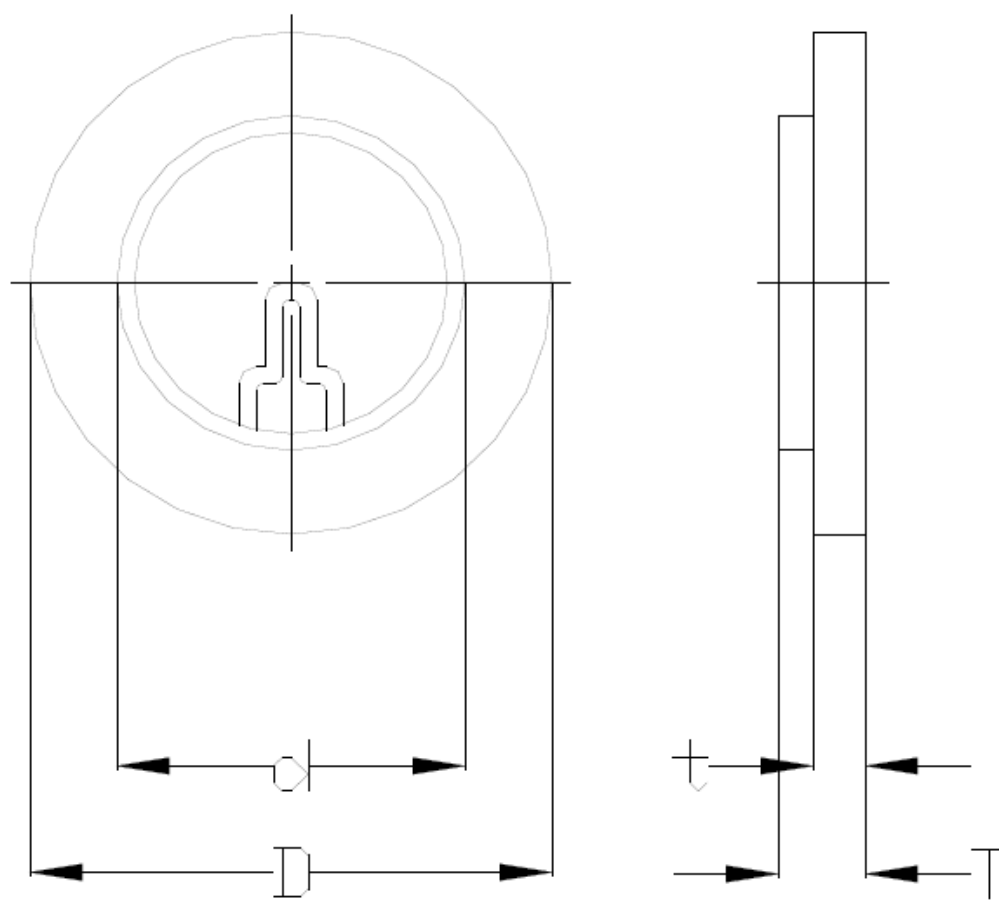


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.7 ± 0.2	KHz

Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	22,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



Contact us

If you need any further information, please don't hesitate to contact us.



MZ27441BF0



Material and Weight

D	27.0 ± 0.1
d	20.0 ± 0.5
T	0.48 ± 0.05
t	0.25 ± 0.05

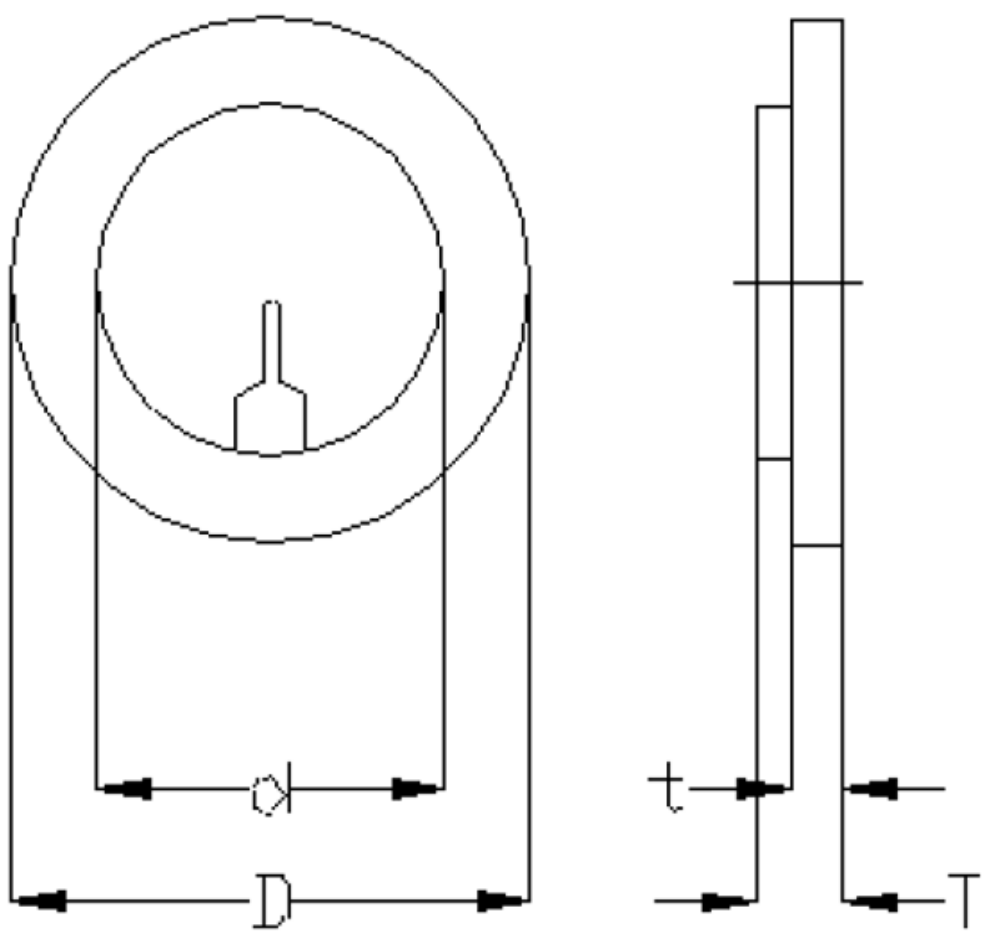


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	4.4 ± 0.5	KHz

Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	20,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 $\sim$ +60	$^{\circ}\text{C}$
Storage Temperature	-20 $\sim$ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



Contact us

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MZ35201FD0



Material and Weight

D	35.0 ± 0.1
d	25.0 ± 0.3
T	0.33 ± 0.05
t	0.20 ± 0.01

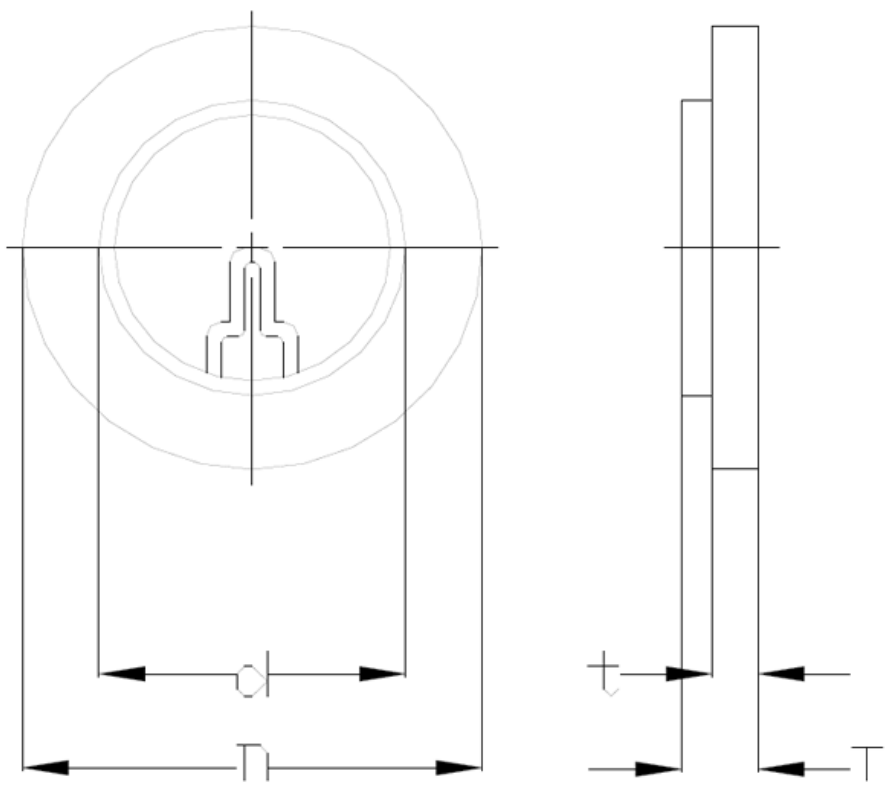


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	Self drive type	
Resonant Frequency	2.0 ± 0.3	KHz

Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	55,000 $\pm$ 30% at 100Hz	pF
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Tinplate	

Dimensions



Contact us

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MZ35291BF0



Material and Weight

D	35.0 ± 0.1
d	25.0 ± 0.2
T	0.52 ± 0.05
t	0.29 ± 0.02

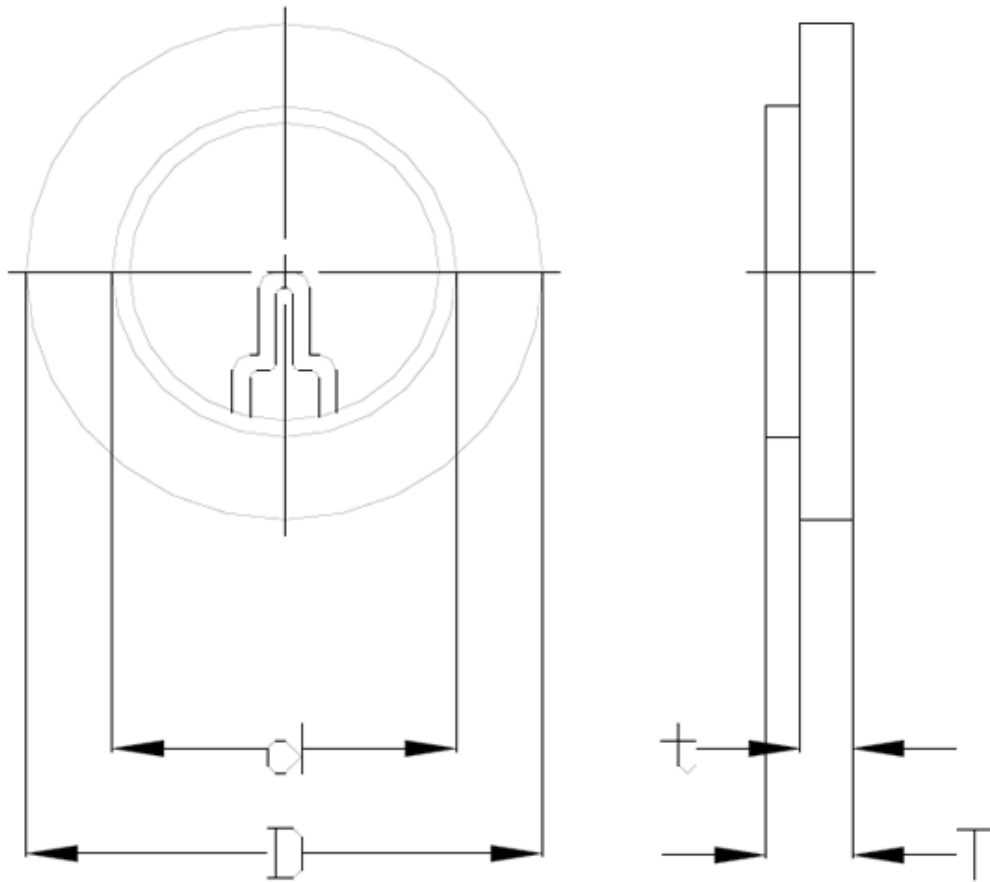


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.0 ± 0.3	KHz

Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	25,000 $\pm$ 30% at 120Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



Contact us

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MZ35291SF0



Material and Weight

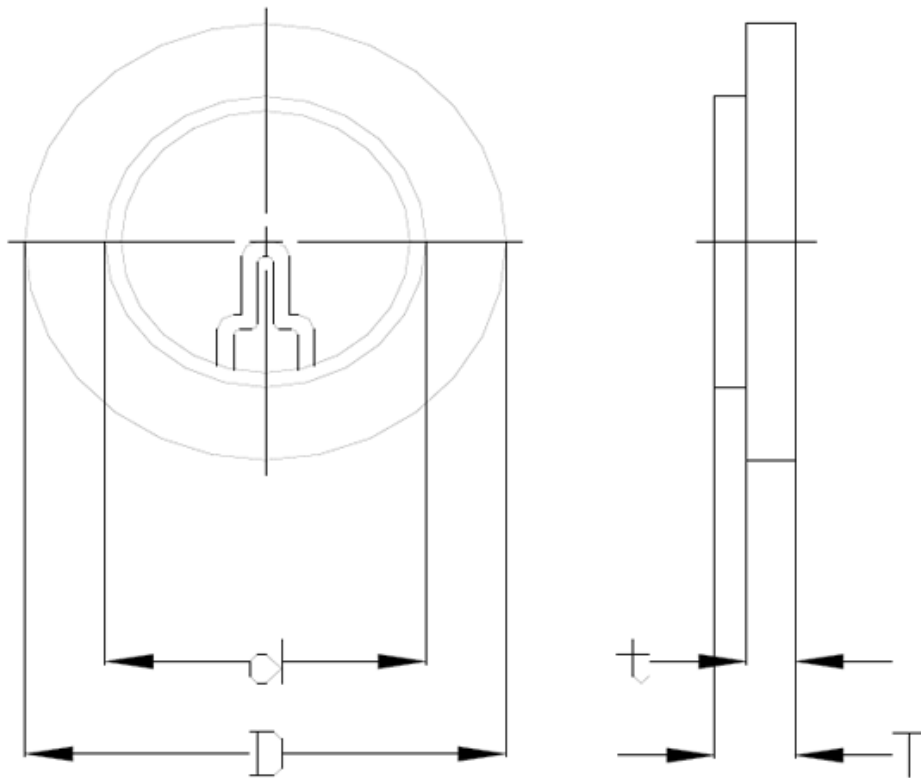
D	35.0 ± 0.1
d	25.0 ± 0.5
T	0.55 ± 0.06
t	0.30 ± 0.05



Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	29 (+0.5 , -0.2)	KHz
Input Voltage	30	Vp-p
Resonant Impedance	300	Ω
Capacitance	$30,000 \pm 30\%$ at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Stainless Steel	
Condition by wave	$245 \pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds.	$^{\circ}\text{C}$
Condition by hand	$350 \pm 20^{\circ}\text{C}$ / within 5sec	$^{\circ}\text{C}$

Dimensions



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