

Piezo Electric Ceramic Element

One Side No Feedback

MZ12490BD0



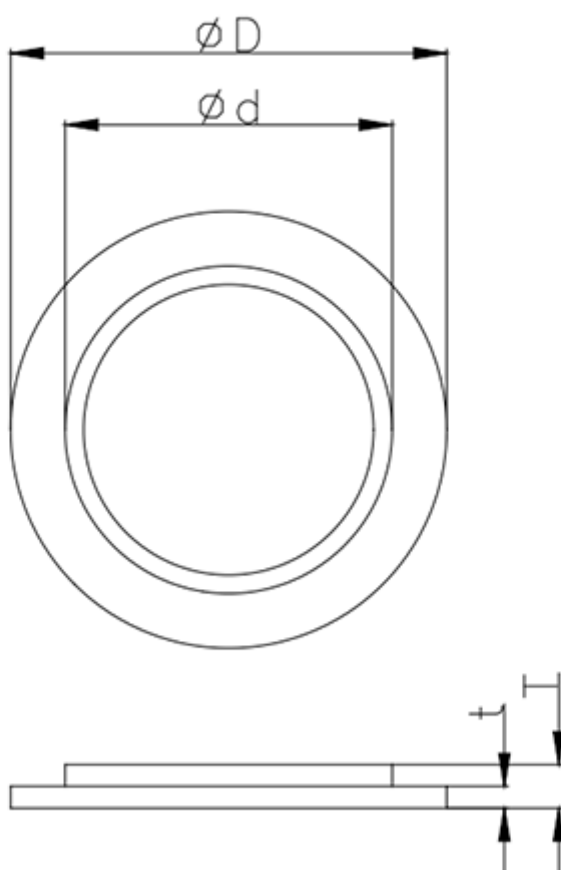
Material and Weight

D	12.0 ± 0.1
d	9.0 ± 0.5
T	0.12 ± 0.03
t	0.05 ± 0.01



Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	4.9 ± 1.0	KHz
Input Voltage	30	Vp-p
Resonant Impedance	1500	Ω
Capacitance	$17,000 \pm 30\%$ at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$

Dimensions**Contact us**

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



MZ15580BD0



Material and Weight

D	15.0 ± 0.2
d	10.0 ± 0.5
T	0.23 ± 0.03
t	0.1 ± 0.02

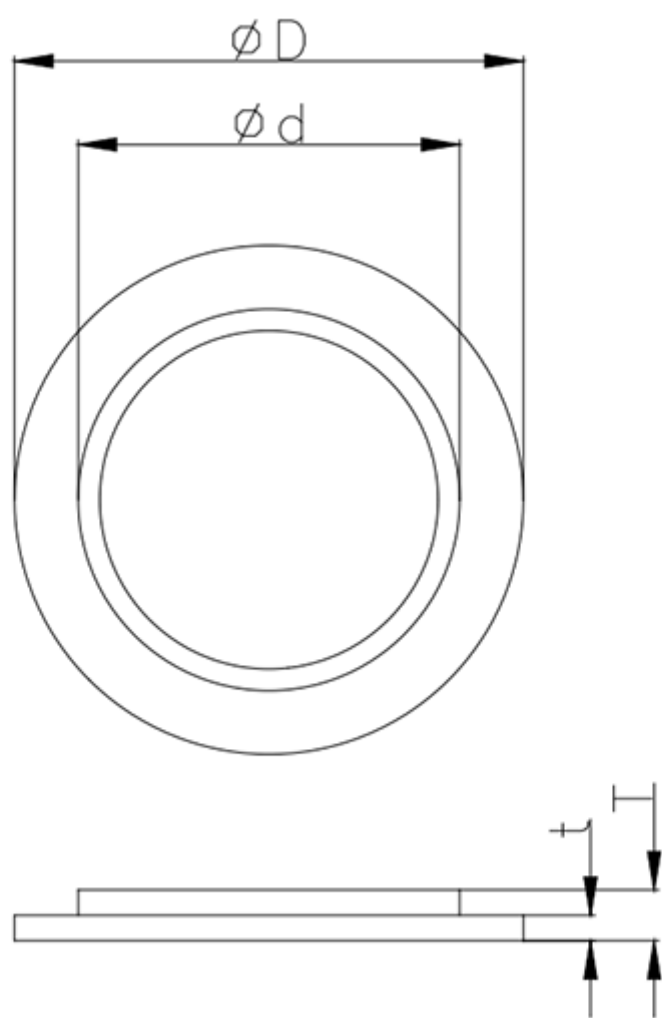


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	5.8 ± 0.5	KHz
Input Voltage	30	Vp-p

Resonant Impedance	800	Ω
Capacitance	10,000 $\pm$ 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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MZ20402BS1



Material and Weight

D	20 ± 0.2
d	14.6 ± 0.2
T	0.38 ± 0.03
t	0.25 ± 0.02

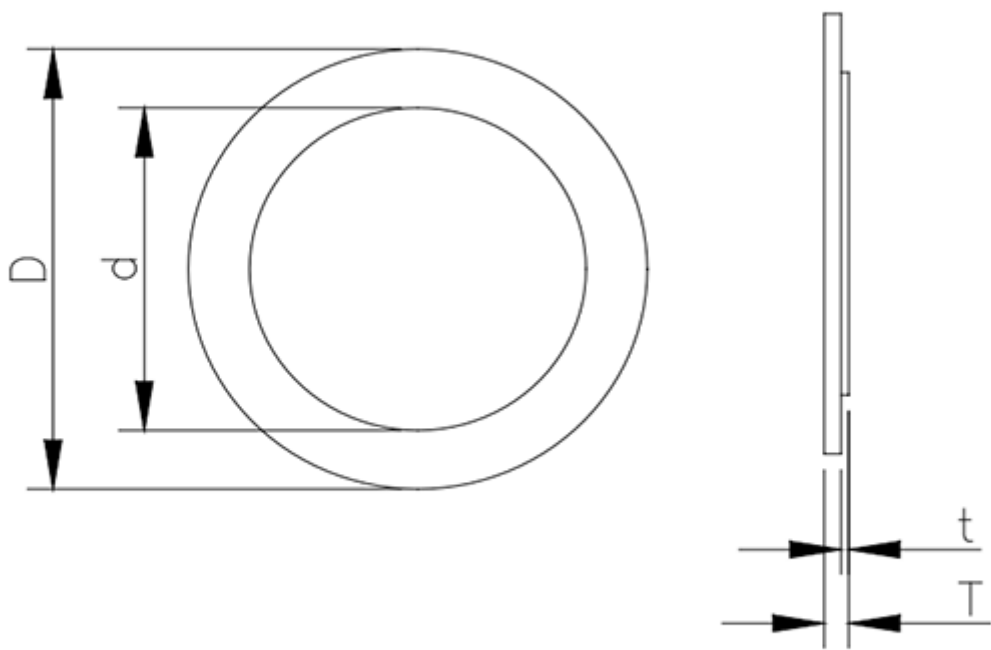


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	5.1 ± 0.5	KHz
Input Voltage	15	Vp-p

Resonant Impedance	200	Ω
Capacitance	26,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Brass	
Polarity	Same Polarity	

Dimensions



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



MZ20650BD0



Material and Weight

D	20.0 ± 0.1
d	14.8 ± 0.5
T	0.4 ± 0.05
t	0.20 ± 0.03

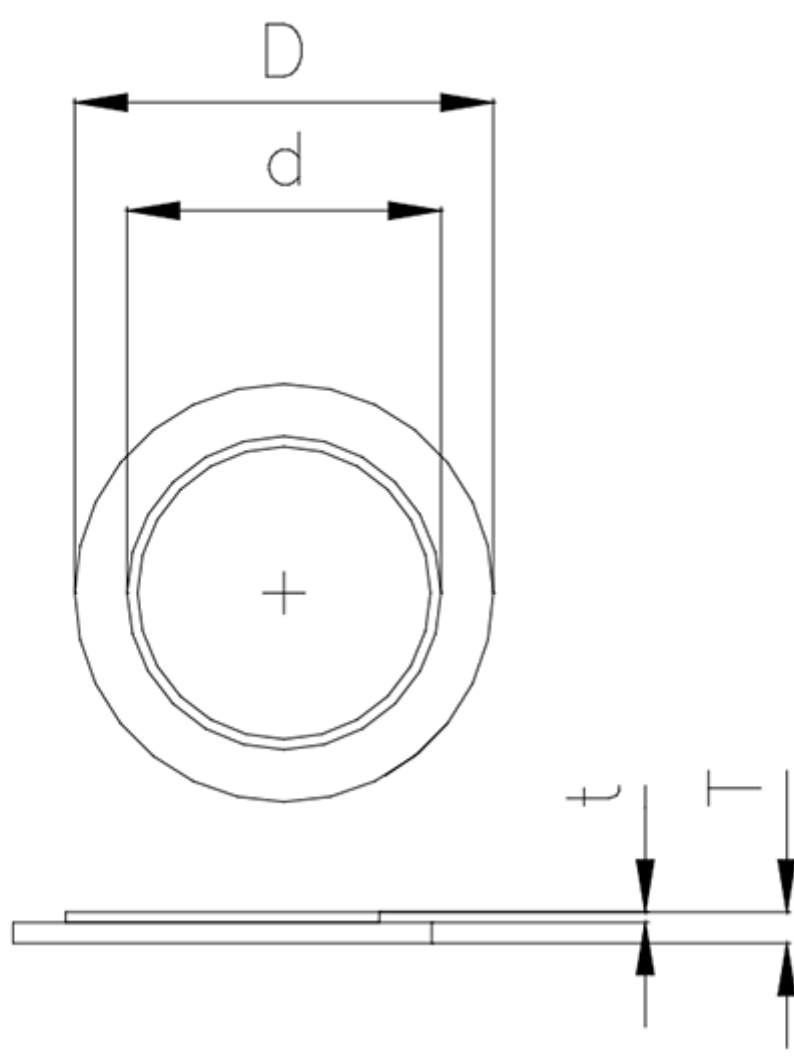


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	6.5 ± 0.5	KHz

Input Voltage	30	Vp-p
Resonant Impedance	350	Ω
Capacitance	12,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Brass	

Dimensions



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MZ21280BD0



Material and Weight

D	21.0 ± 0.1
d	15.0 ± 0.3
T	0.20 ± 0.05
t	0.10 ± 0.02

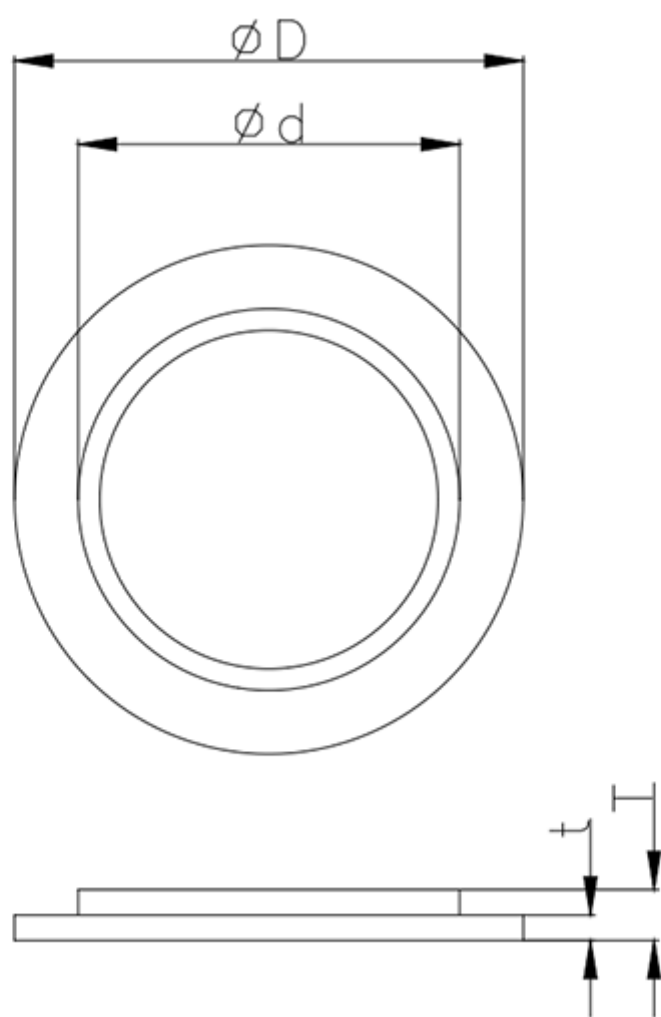


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	2.8 ± 0.2	KHz

Input Voltage	30	Vp-p
Resonant Impedance	500	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

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



MZ21300BF0



Material and Weight

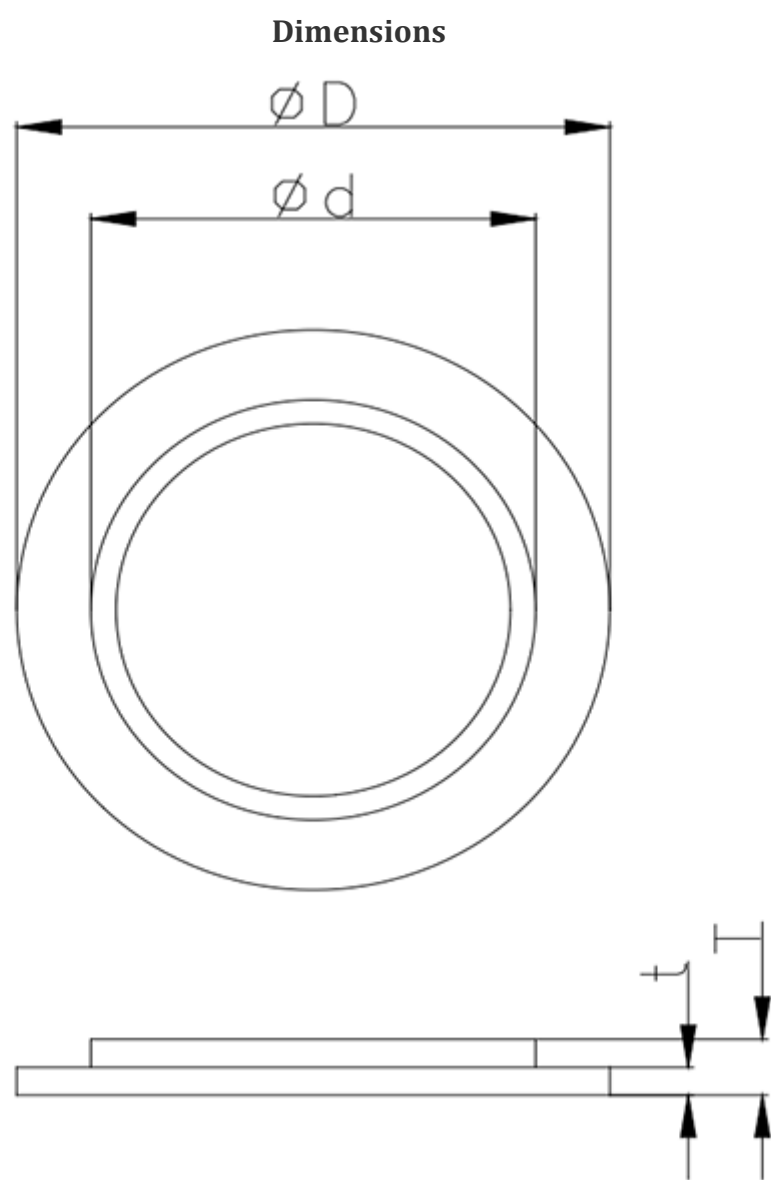
D	21.0 ± 0.2
d	15.0 ± 0.2
T	0.23 ± 0.03
t	0.10 ± 0.02



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	200	Ω
Capacitance	28,000 $\pm$ 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Brass	



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MZ21320SD0



Material and Weight

D	21.0 ± 0.1
d	14.8 ± 0.5
T	0.22 ± 0.05
t	0.10 ± 0.02

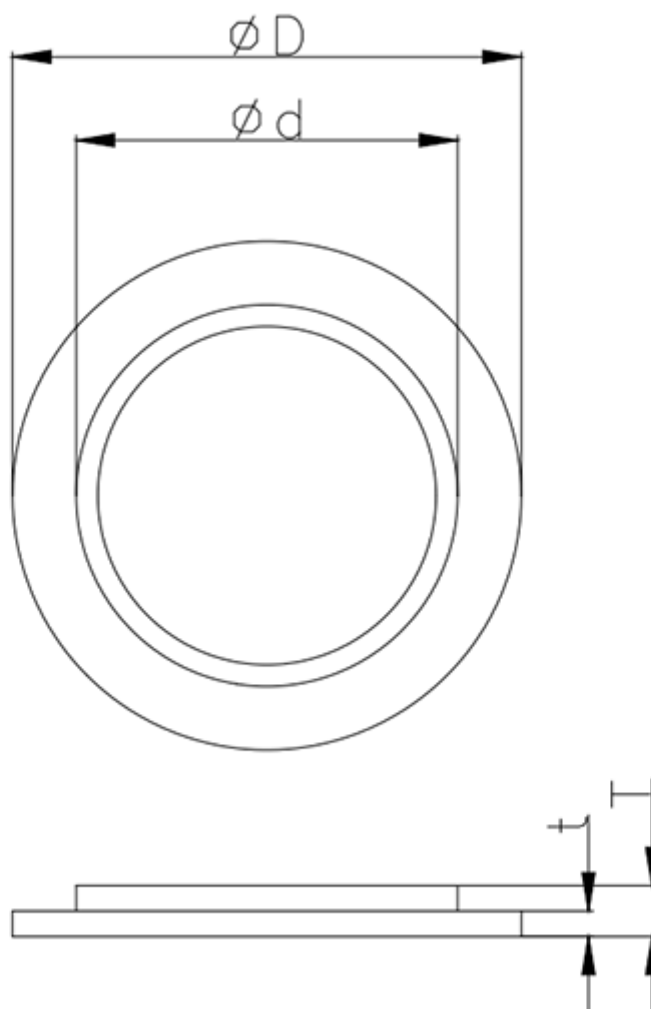


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	3.2 ± 0.2	KHz

Input Voltage	30	Vp-p
Resonant Impedance	500	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	Stainless steel	

Dimensions



Contact us

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MZ27280BD0



Material and Weight

D	27.0 ± 0.1
d	19.8 ± 0.3
T	0.33 ± 0.1
t	0.15 ± 0.05

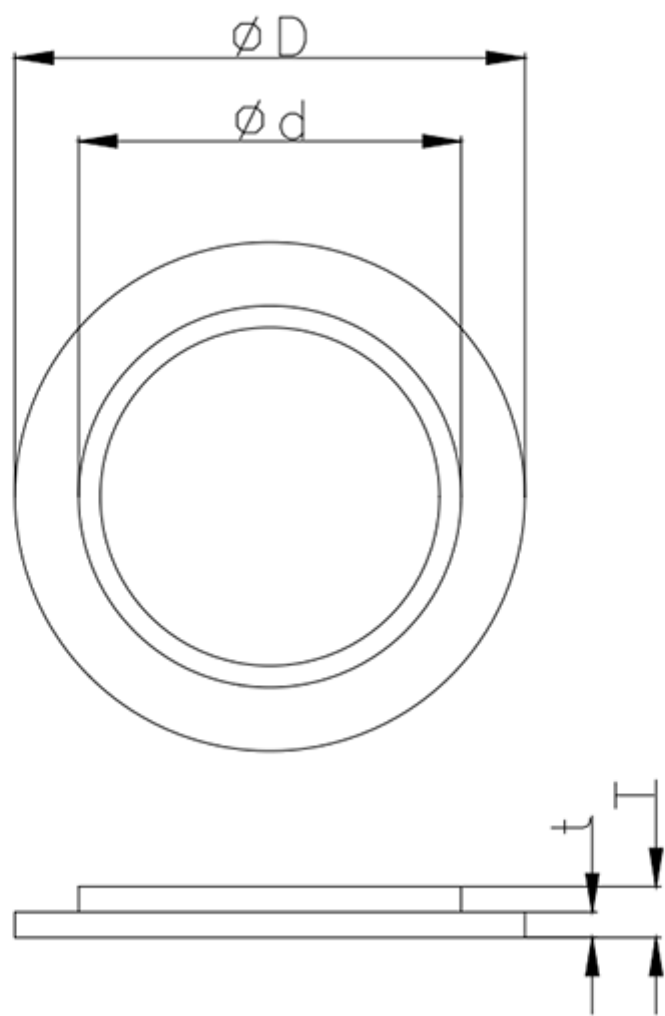


Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	2.8 ± 0.5	KHz

Input Voltage	30	Vp-p
Resonant Impedance	400	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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MZ27290BD0



Material and Weight

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

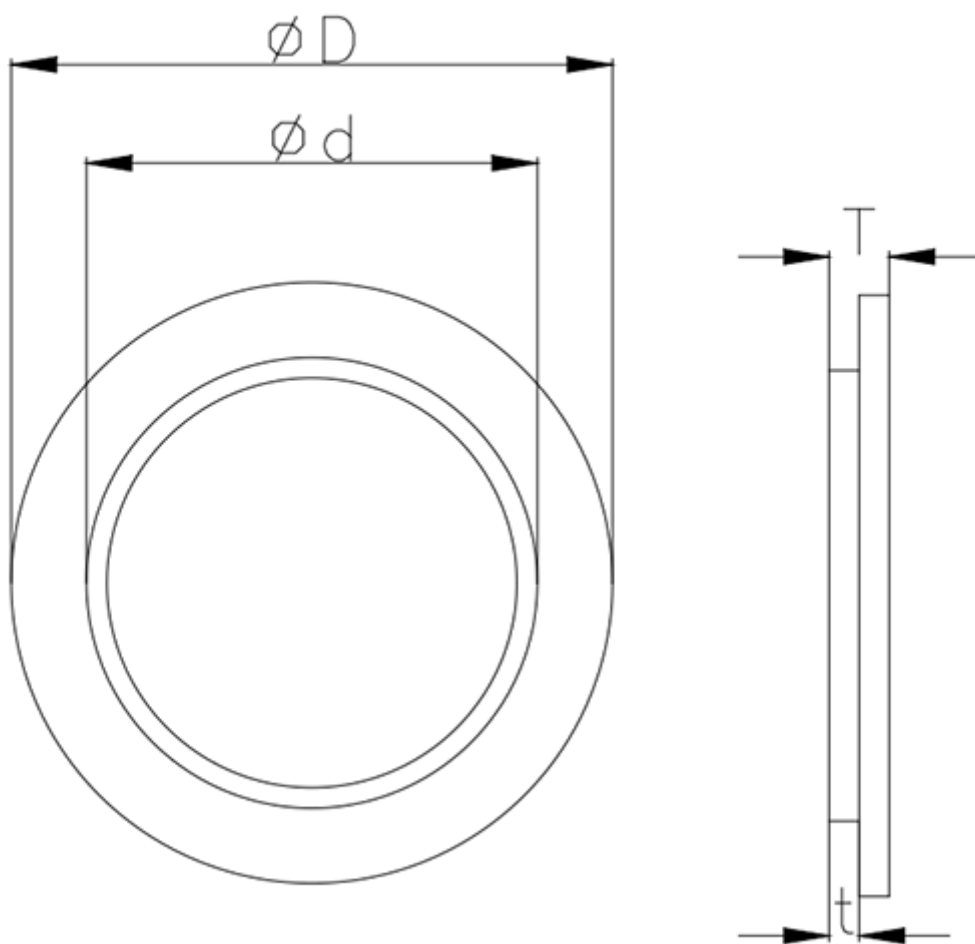


Electrical Characteristics

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	$36,000 \pm 30\%$ at 100Hz	pF
Operating Temperature	-20 ~ +60	°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.



MZ27290SD0



Material and Weight

D	27.0 ± 0.1
d	19.8 ± 0.5
T	0.32 ± 0.05
t	0.20 ± 0.01

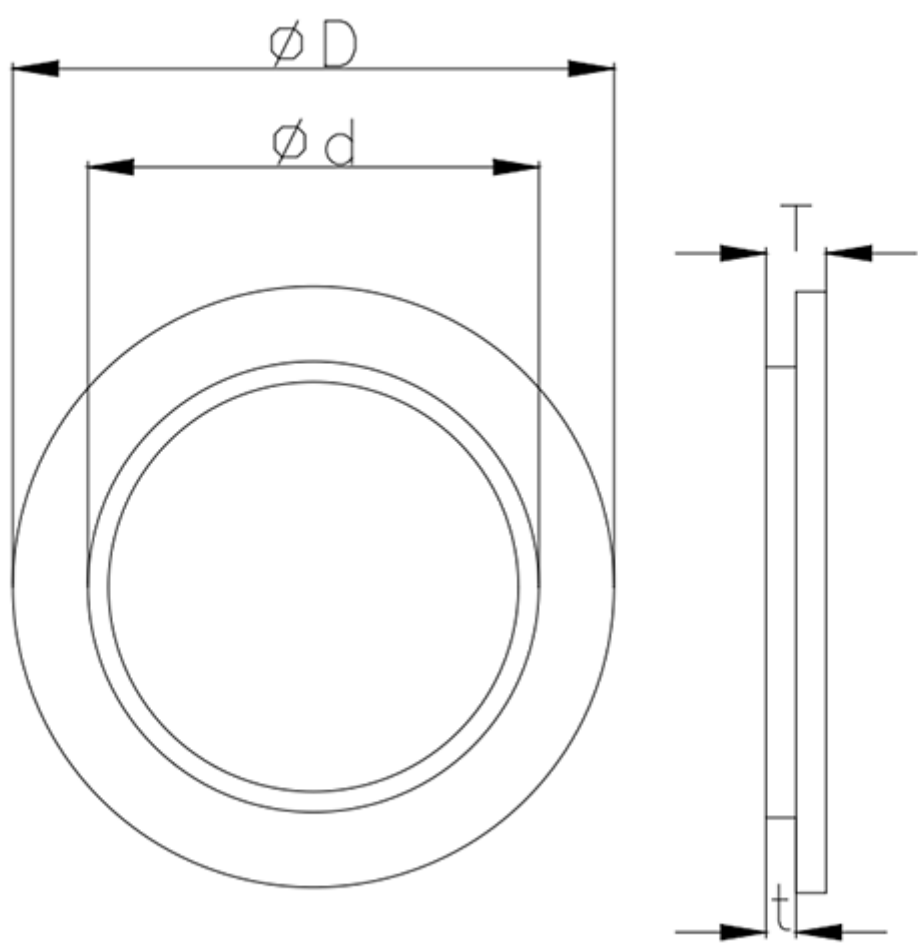


Electrical Characteristics

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

Resonant Frequency	2.9 ± 0.5	KHz
Input Voltage	30	Vp-p
Resonant Impedance	200	Ω
Capacitance	36,000 ± 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-20 ~ +70	°C
Base Material	Stainless	

Dimensions



Contact us

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



MZ27350BD0



Material and Weight

D	27.0 ± 0.1
d	19.8 ± 0.5
T	0.40 ± 0.05
t	0.20 ± 0.03

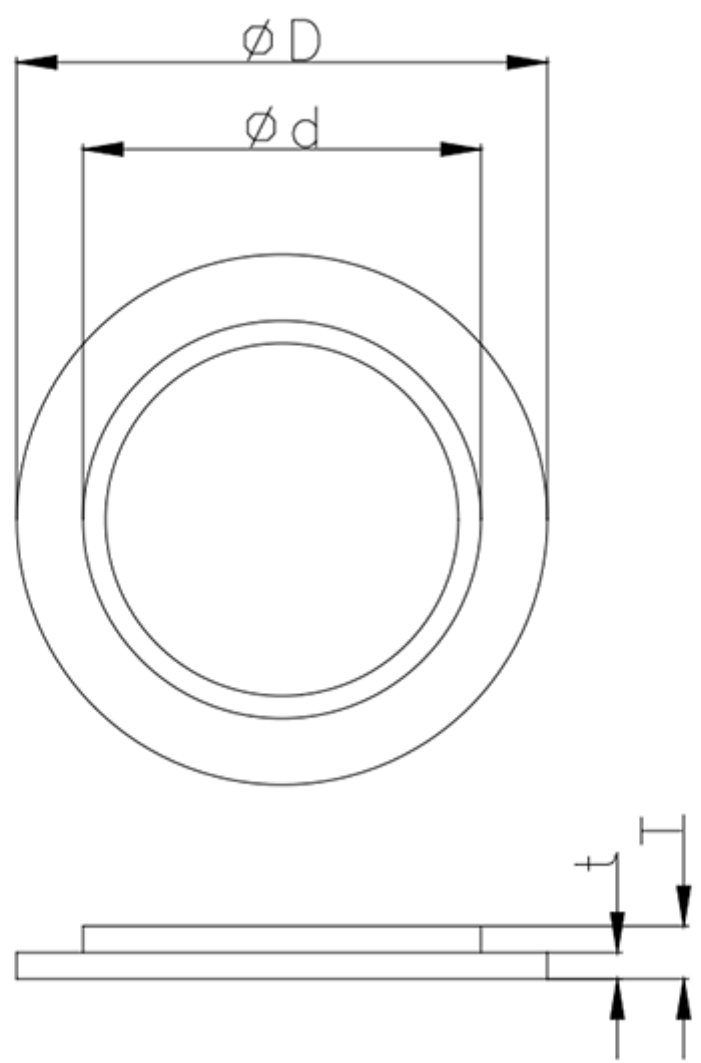


Electrical Characteristics

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

Resonant Frequency	3.4 (+0.3 , -0.2)	KHz
Input Voltage	30	Vp-p
Resonant Impedance	200	Ω
Capacitance	22,000 ± 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	°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.



MZ27440BD0



Material and Weight

D	27.0 ± 0.1
d	19.8 ± 0.5
T	0.50 ± 0.05
t	0.25 ± 0.03

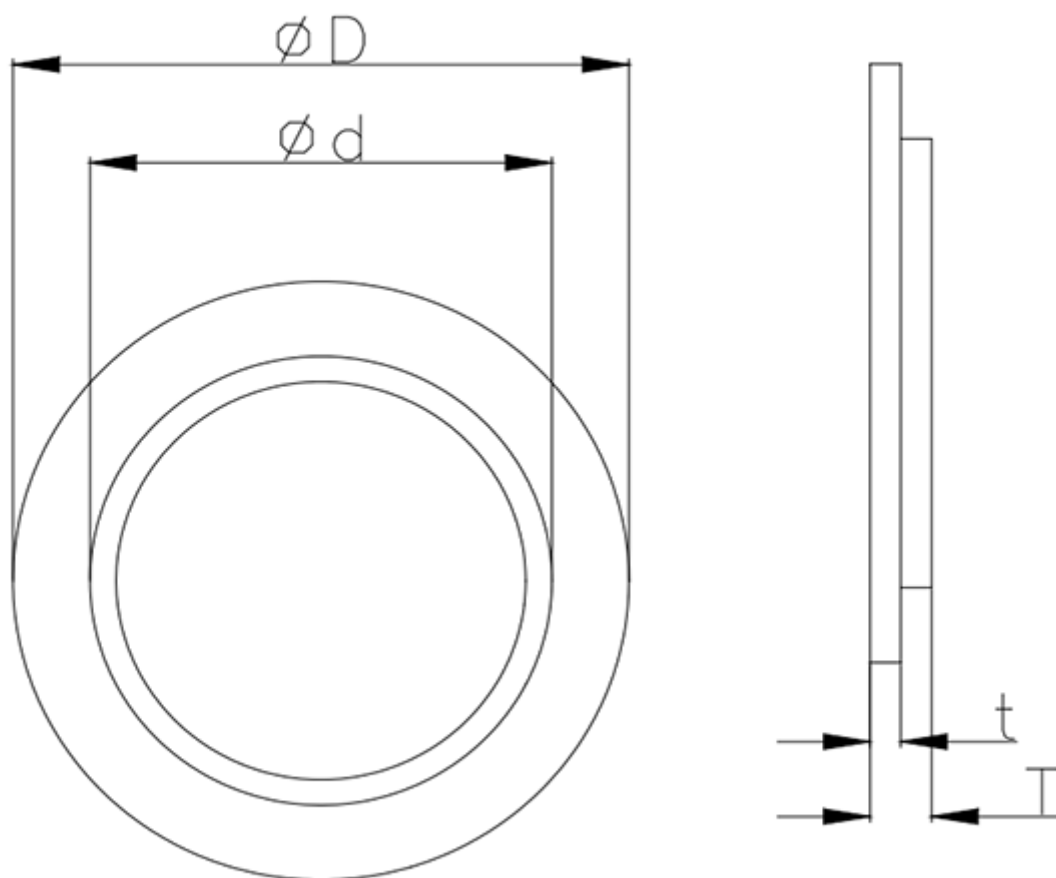


Electrical Characteristics

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	18,000 ± 30% at 100Hz	pF
Operating Temperature	-20 ~ +60	°C
Storage Temperature	-20 ~ +70	°C
Base Material	Brass	
Condition by hand (°C) - Silver	300 ± 20°C / within 2sec	°C
Condition by hand (°C) - Brass	380 ± 20°C / within 5sec	°C

Dimensions



Contact us

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



MZ31130TF0



Material and Weight

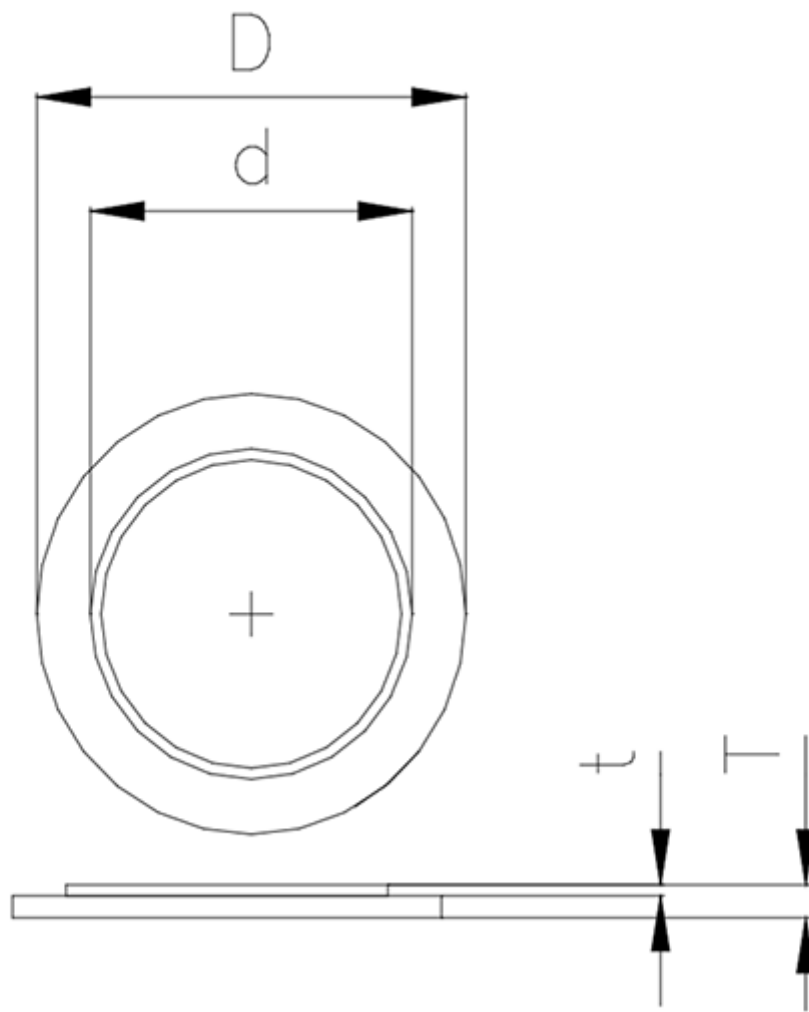
D	31.0 ± 0.1
d	21.0 ± 0.5
T	0.22 ± 0.03
t	0.10 ± 0.02



Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	1.3 ± 0.3	KHz
Input Voltage	30	Vp-p
Resonant Impedance	800	Ω
Capacitance	45,000 - 60,000 at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$

Dimensions



Contact us

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



MZ35290BD0



Material and Weight

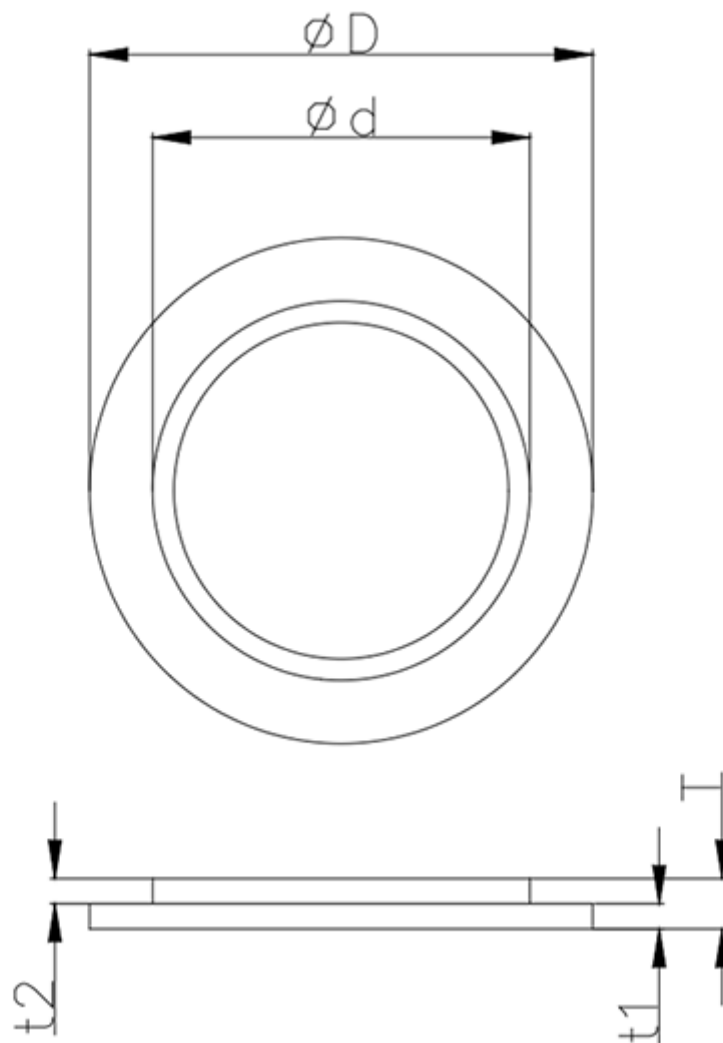
D	35.0 ± 0.1
d	24.8 ± 0.5
T	0.58 ± 0.05
t	0.28 ± 0.02
t1	0.30 ± 0.02
t1	0.28 ± 0.05



Electrical Characteristics

Dimension	As per drawing below in mm	mm
Type	External drive type element	
Resonant Frequency	2.9 ± 0.5	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

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



MZ41080TD0



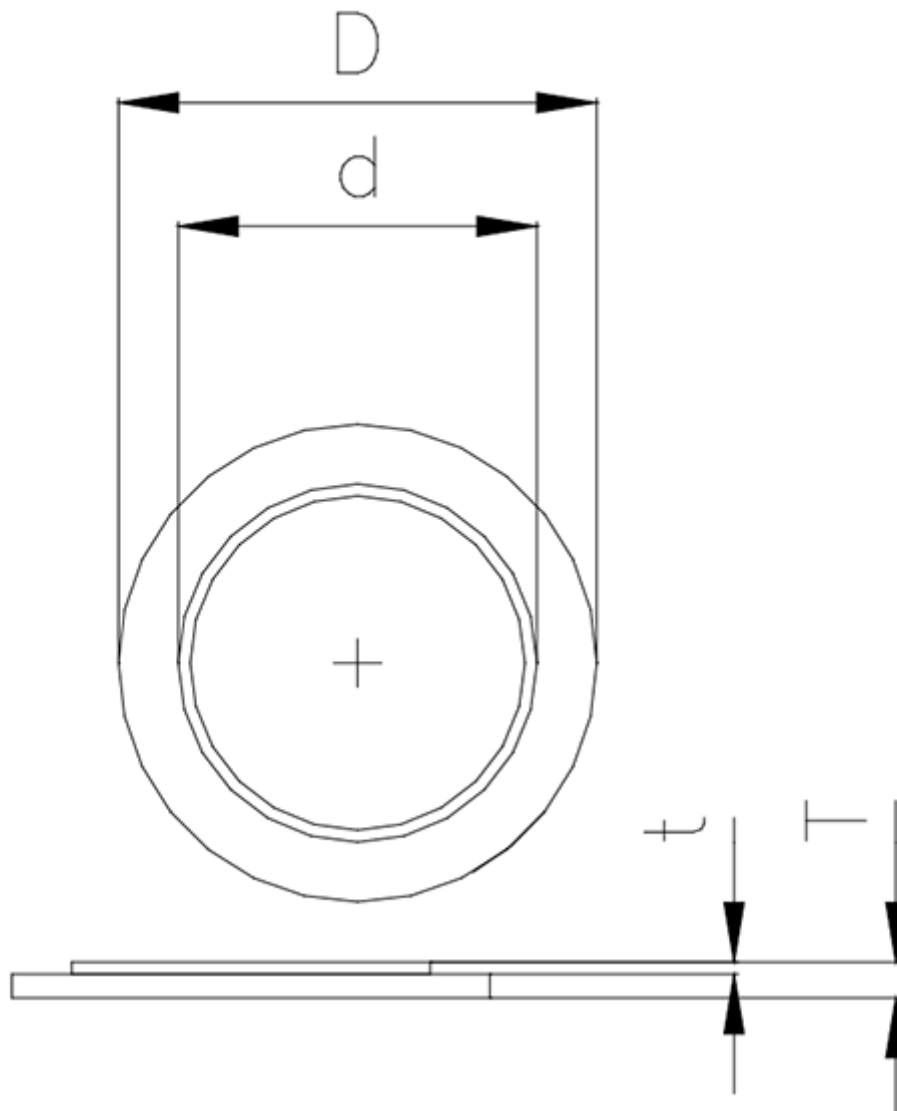
Material and Weight

D	41.0 ± 0.1
d	25.0 ± 0.5
T	0.23 ± 0.05
t	0.10 ± 0.01

Electrical Characteristics

Dimension	As per drawing below in mm	
Type	External drive type element	
Resonant Frequency	0.8 ± 0.3	KHz
Input Voltage	30	Vp-p
Resonant Impedance	1000	Ω
Capacitance	$70,000 \pm 30\%$ at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$
Base Material	Iron Nickel Alloy	

Dimensions



Contact us

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



MZ50280BJ0



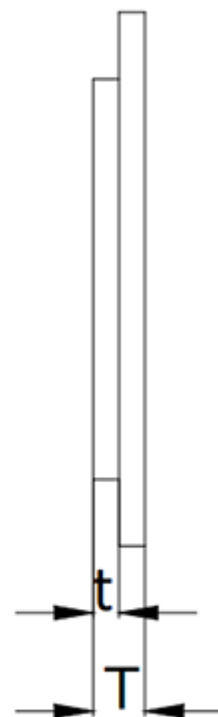
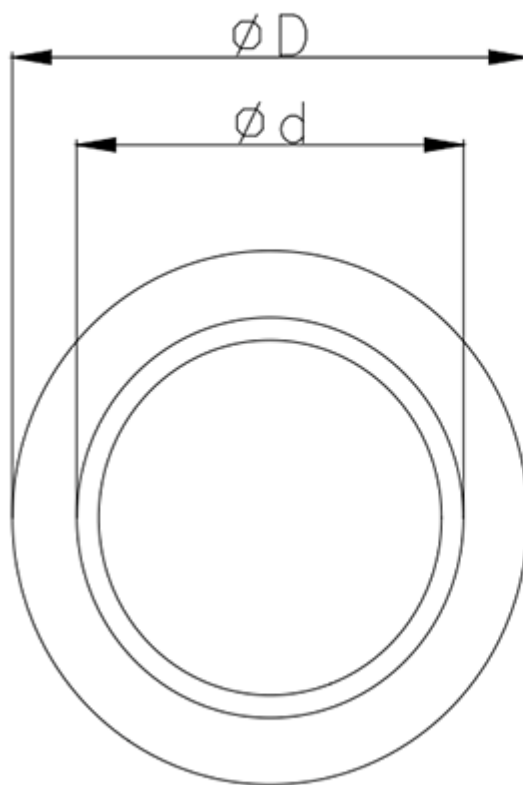
Material and Weight

D	50.0 ± 0.1
d	25.0 ± 0.3
T	0.43 ± 0.1
t	0.20 ± 0.05

Electrical Characteristics

Dimension	As per drawing below in mm	
Type	External drive type element	
Resonant Frequency	2.8 ± 0.5	KHz
Input Voltage	30	Vp-p
Resonant Impedance	200	Ω
Capacitance	$35,000 \pm 30\%$ at 100Hz	pF
Operating Temperature	-20 ~ +60	$^{\circ}\text{C}$
Storage Temperature	-20 ~ +70	$^{\circ}\text{C}$

Dimensions



Contact us

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