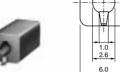
Dielectric Resonators (RESOMICS®)

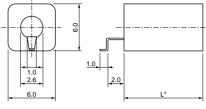


Dielectric Resonator P Series (DRR Copper Plated Type)

■ Features

- 1. High dielectric constant : Er=21
- 2. Lower price than silver plated type
- 3. Excellent solderability by copper electrode
- 4. These resonators cover wide range of resonant frequencies (by 10MHz step).





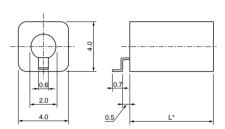
DRR060 Type

* Dimension L can be calculated by the following, using dielectric constant and resonant frequency L $\stackrel{.}{=}$ 3 x 10¹¹/(n $\stackrel{.}{\text{Ver}}$ • fo) (fo : Hz) $\lambda/4$ TEM mode : n=4 $\lambda/2$ TEM mode : n=2

(in mm)





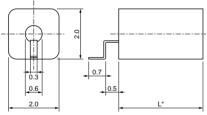


Dimension L can be calculated by the following, using dielectric constant and resonant frequency. $L = 3 \times 10^{11} / (n \sqrt{er} \cdot f_0)$ (fo : Hz) $\lambda / 4$ TEM mode : n=4 $\lambda / 2$ TEM mode : n=2





DRR020 Type

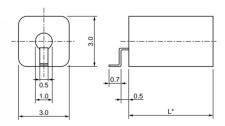


* Dimension L can be calculated by the following, using dielectric constant and resonant frequency L \rightleftharpoons 3 x 10¹¹/(n \sqrt{c} r \bullet fo) (fo : Hz) λ /4 TEM mode : n=4 λ /2 TEM mode : n=2

(in mm)



DRR030 Type



* Dimension L can be calculated by the following, using dielectric constant and resonant frequency L \rightleftharpoons 3 x 10¹¹/(n $\sqrt{c}r \cdot fo$) (fo : Hz) $\lambda/4$ TEM mode : n=4 $\lambda/2$ TEM mode : n=2

(in mm)

Part Number	f0 (MHz)	Unloaded Q (min)	Wavelength	Za (ohm)
DRR060	1000 to 1190	550	Lambda/4	11.9 (Nominal Value)
DRR060	1200 to 1790	600	Lambda/4	11.9 (Nominal Value)
DRR060	1800 to 2700	650	Lambda/4	11.9 (Nominal Value)
DRR060	2000 to 2490	800	Lambda/2	11.9 (Nominal Value)
DRR060	2500 to 3000	850	Lambda/2	11.9 (Nominal Value)
DRR040 DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	1300 to 1490	350	Lambda/4	10.0 (Nominal Value)
DRR040 DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	1500 to 1990	400	Lambda/4	10.0 (Nominal Value)
DRR040 DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	2000 to 3000	450	Lambda/4	10.0 (Nominal Value)
DRR040 DPPC00R	2500 to 3000	550	Lambda/2	10.0 (Nominal Value)
DRR030 DPTC00R	1900 to 2490	380	Lambda/4	15.4 (Nominal Value)
DRR030 DRR040 DR	2500 to 3000	400	Lambda/4	15.4 (Nominal Value)
DRR020 DRR020 PTC00R	2800 to 3500	250	Lambda/4	16.7 (Nominal Value)



Continued from the preceding page.

Part Number	f0 (MHz)	Unloaded Q (min)	Wavelength	Za (ohm)
DRR020 DR	3510 to 5000	300	Lambda/4	16.7 (Nominal Value)

Dielectric Constant : 21.4±0.2

Temperature coefficient of resonant frequency : $4\pm2ppm/^{\circ}C$

Tolerance of resonant frequency : $\pm 0.7\%$ max. (Please contact our sales representatives for details.)

Unloaded Q is value at lower limit of frequency range.

Five blank boxes of the above Part Numbers are filled with Resonant Frequency codes. Please see Part Numbering for details.

■ Minimum Quantity of Taping DRR020 type: 2500pcs./phi 330mm reel DRR030 type: 2000pcs./phi 330mm reel DRR040 type: 1500pcs./phi 330mm reel

