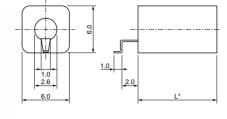


## **Dielectric Resonator P Series (DRR Copper Plated Type)**

## ■ Features

- 1. High dielectric constant : Er=21.
- 2. Excellent Solderability.
- 3. Higher unloaded Q using by solderless terminal.
- 4. These resonators cover wide range of resonant frequency (by 10MHz step).
- 5. Please consult our sales representatives or engineers as regards the products of other frequency.





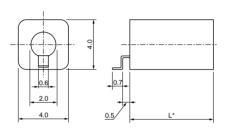
DRR060 Type

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

(in mm)



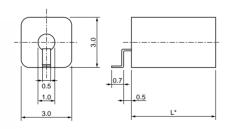




Dimension L can be calculated by the following: using dielectric constant and resonant frequency.  $L = 3 \times 10^{11} / (n \sqrt{er} \cdot f_0)$  (fo : Hz)  $\lambda / 4$  TEM mode : n=4  $\lambda / 2$  TEM mode : n=2



DRR030 Type

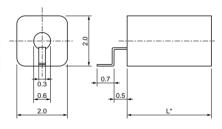


\* Dimension L can be calculated by the following, using dielectric constant and resonant frequency L  $\rightleftharpoons$  3 x 10<sup>11</sup>/(n $\sqrt{c}$ r  $\bullet$  fo) (fo : Hz)  $\lambda$ /4 TEM mode : n=4  $\lambda$ /2 TEM mode : n=2

(in mm)



DRR020 Type



\* Dimension L can be calculated by the following, using dielectric constant and resonant frequency L  $\rightleftharpoons$  3 x 10<sup>11</sup>/(n $\sqrt{c}r \cdot fo$ ) (fo : Hz)  $\lambda/4$  TEM mode : n=4  $\lambda/2$  TEM mode : n=2

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 DRR040	1300 to 1490	350	Lambda/4	10.0 (Nominal Value)
DRR040 DRR040	1500 to 1990	400	Lambda/4	10.0 (Nominal Value)
DRR040 DRR040	2000 to 3000	450	Lambda/4	10.0 (Nominal Value)
DRR040 DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	2500 to 3000	550	Lambda/2	10.0 (Nominal Value)
DRR030 DPTC00R	1900 to 2490	380	Lambda/4	15.4 (Nominal Value)
DRR030 DPTC00R	2500 to 3000	400	Lambda/4	15.4 (Nominal Value)
DRR020 PTC00R	2800 to 3500	250	Lambda/4	16.7 (Nominal Value)





Part Number	f0 (MHz)	Unloaded Q (min)	Wavelength	Za (ohm)
DRR020 DPTC00R	3510 to 5000	300	Lambda/4	16.7 (Nominal Value)

Dielectric Constant: 21.4+-0.2

Temperature coefficient of resonant frequency : 4+-2ppm/ $^{\circ}$ C

Tolerance of resonant frequency: +-0.7% (Please contact our sales representatives)

Unloaded Q value depends on lower limit of frequency range.

Five blank columns are filled with Nominal Center 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

