

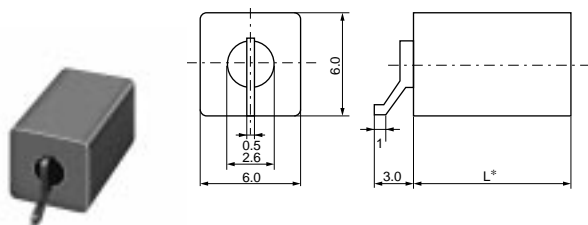
Dielectric Resonators (RESOMICS®)

muRata

Dielectric Resonator K Series (DRR Silver Plated Type)

■ Features

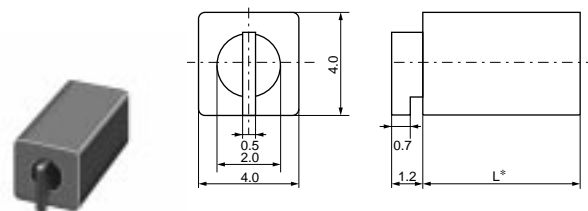
1. High dielectric constant : Er=92
2. These resonators cover wide range of resonant frequencies (by 10 MHz step).



DRR060 Type

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

(in mm)



DRR040 Type

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

(in mm)

Part Number	f ₀ (MHz)	Unloaded Q (min)	Wavelength	Z _a (ohm)
DRR060□□□□KTS00T	440 to 790	350	Lambda/4	5.7 (Nominal Value)
DRR060□□□□KTS00T	800 to 1300	400	Lambda/4	5.7 (Nominal Value)
DRR060□□□□KPS00T	1000 to 1690	500	Lambda/2	5.7 (Nominal Value)
DRR060□□□□KPS00T	1700 to 2200	560	Lambda/2	5.7 (Nominal Value)
DRR040□□□□KTS00T	660 to 1190	250	Lambda/4	4.8 (Nominal Value)
DRR040□□□□KTS00T	1200 to 1650	280	Lambda/4	4.8 (Nominal Value)
DRR040□□□□KPS00T	1300 to 1990	320	Lambda/2	4.8 (Nominal Value)
DRR040□□□□KPS00T	2000 to 3000	350	Lambda/2	4.8 (Nominal Value)

Dielectric Constant : 92±1

Temperature coefficient of resonant frequency : 3±2ppm/°C

Tolerance of resonant frequency : ±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.