

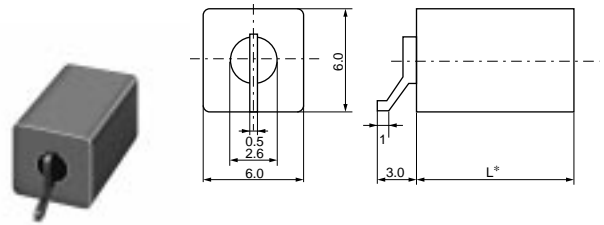
Dielectric Resonators (RESOMICS®)



Dielectric Resonator U Series (DRR Silver Plated Type)

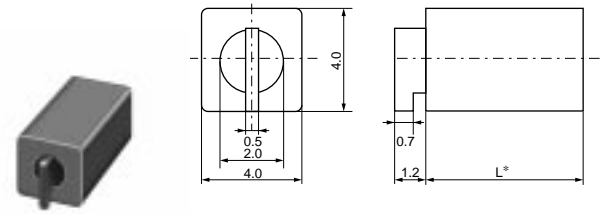
■ Features

1. High dielectric constant : Er=38
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.
 $L \approx 3 \times 10^{11} / (n\sqrt{\epsilon_r} \cdot f_0)$ (f₀ : Hz)
 λ/4 TEM mode : n=4 λ/2 TEM mode : n=2
 (in mm)



DRR040 Type

* Dimension L can be calculated by the following, using dielectric constant and resonant frequency.
 $L \approx 3 \times 10^{11} / (n\sqrt{\epsilon_r} \cdot f_0)$ (f₀ : Hz)
 λ/4 TEM mode : n=4 λ/2 TEM mode : n=2
 (in mm)

Part Number	f ₀ (MHz)	Unloaded Q (min)	Wavelength	Z _a (ohm)
DRR060□□□□□UTS00T	680 to 1540	450	Lambda/4	8.8 (Nominal Value)
DRR060□□□□□UTS00T	1550 to 1800	550	Lambda/4	8.8 (Nominal Value)
DRR060□□□□□UPS00T	1600 to 2390	700	Lambda/2	8.8 (Nominal Value)
DRR060□□□□□UPS00T	2400 to 3500	800	Lambda/2	8.8 (Nominal Value)
DRR040□□□□□UTS00T	1000 to 1990	360	Lambda/4	7.4 (Nominal Value)
DRR040□□□□□UTS00T	2000 to 2700	400	Lambda/4	7.4 (Nominal Value)
DRR040□□□□□UPS00T	2000 to 2990	480	Lambda/2	7.4 (Nominal Value)
DRR040□□□□□UPS00T	3000 to 4800	520	Lambda/2	7.4 (Nominal Value)

Dielectric Constant : 38±1

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

Tolerance of resonant frequency : ±0.5%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.