

# Dielectric Resonators (RESOMICS®)

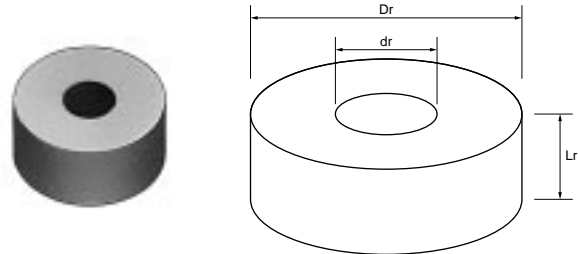


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## Dielectric Resonator U Series (DRT Type)

### ■ Features

1. High Q of 6,000 at 7GHz
2. High dielectric constant : Er=38
3. Resonant frequency temperature coefficient can be chosen from -4 to 10ppm/(degree C). Tolerance of the frequency temperature coefficient can be chosen from +-0.5, +-1, and +-2 ppm/(degree C).
4. Resonant frequency can be chosen from 2.7 to 11.5GHz.
5. Low price



Part Number	Outer Dia. (mm)	Inner Dia. (mm)	Thickness (mm)	Frequency Range
DRT0510224U□□□00T	5.06 ±0.05 mm	2.0 ±0.1 mm	2.24 ±0.05 mm	10.54~11.45 GHz
DRT0550244U□□□00T	5.50 ±0.05 mm	2.0 ±0.1 mm	2.44 ±0.05 mm	9.69~10.54 GHz
DRT0600265U□□□00T	5.98 ±0.05 mm	2.0 ±0.1 mm	2.65 ±0.05 mm	8.91~9.69 GHz
DRT0650288U□□□00T	6.50 ±0.05 mm	2.0 ±0.1 mm	2.88 ±0.05 mm	8.20~8.91 GHz
DRT0710314U□□□00T	7.07 ±0.05 mm	2.0 ±0.1 mm	3.14 ±0.05 mm	7.54~8.20 GHz
DRT0770341U□□□00T	7.69 ±0.05 mm	2.0 ±0.1 mm	3.41 ±0.05 mm	6.93~7.54 GHz
DRT0840371U□□□00T	8.36 ±0.05 mm	3.0 ±0.1 mm	3.71 ±0.05 mm	6.38~6.93 GHz
DRT0910403U□□□00T	9.09 ±0.05 mm	3.0 ±0.1 mm	4.03 ±0.05 mm	5.87~6.38 GHz
DRT0990438U□□□00T	9.88 ±0.05 mm	3.0 ±0.1 mm	4.38 ±0.05 mm	5.40~5.87 GHz
DRT1050460U□□□00T	10.50 ±0.05 mm	3.0 ±0.1 mm	4.60 ±0.05 mm	5.08~5.40 GHz
DRT1070477U□□□00T	10.75 ±0.05 mm	4.0 ±0.1 mm	4.77 ±0.05 mm	4.96~5.08 GHz
DRT1170518U□□□00T	11.68 ±0.05 mm	4.0 ±0.1 mm	5.18 ±0.05 mm	4.56~4.96 GHz
DRT1270563U□□□00T	12.70 ±0.05 mm	4.0 ±0.1 mm	5.63 ±0.05 mm	4.20~4.56 GHz
DRT1380613U□□□00T	13.81 ±0.05 mm	4.0 ±0.1 mm	6.13 ±0.05 mm	3.86~4.20 GHz
DRT1500666U□□□00T	15.02 ±0.05 mm	4.0 ±0.1 mm	6.66 ±0.05 mm	3.55~3.86 GHz
DRT1630724U□□□00T	16.33 ±0.05 mm	4.0 ±0.1 mm	7.24 ±0.05 mm	3.27~3.55 GHz
DRT1780788U□□□00T	17.76 ±0.05 mm	4.0 ±0.1 mm	7.88 ±0.05 mm	3.00~3.27 GHz
DRT1930856U□□□00T	19.31 ±0.05 mm	4.0 ±0.1 mm	8.56 ±0.05 mm	2.76~3.00 GHz
DRT2000863U□□□00T	20.00 ±0.05 mm	4.0 ±0.1 mm	8.63 ±0.05 mm	2.67~2.89 GHz
DRT2000863U□□□01T	20.00 ±0.05 mm	6.0 ±0.1 mm	8.63 ±0.05 mm	2.66~2.88 GHz

Codes for temperature coefficient of resonant frequency and the tolerance should be put into the three blank boxes of the above Part Numbers.

Please see "Part Numbering" (ex.) 2.0±1.0ppm/°C : 20A.

### ■ Freq. Temp. Coefficient, Dielectric Constant and Q

#### • U series

Characteristic Code	Frequency Temperature Coefficient (τf) (ppm/°C)	Dielectric Constant (εr)	Q (at 7GHz)
E0	-4	36.6±0.5	6,000 min.
C0	-2	37.0±0.5	
00	0	37.4±0.5	
20	2	37.7±0.5	
40	4	38.0±0.5	
60	6	38.3±0.5	
80	8	38.6±0.5	
P0	10	38.9±0.5	