

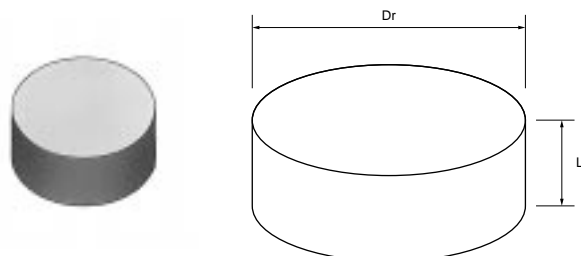
Dielectric Resonators (RESOMICS®)



Dielectric Resonator M Series (DRD Type)

■ Features

1. High Q of 7,000 at 7GHz
2. High dielectric constant : $\epsilon_r=38$
3. Resonant frequency temperature coefficient can be chosen from 0 to 6ppm/(degree C). Tolerance of frequency temperature coefficient can be chosen from ± 0.5 , ± 1 and ± 2 ppm/(degree C).
4. Resonant frequency can be chosen from 1.5 to 12.5GHz.



Part Number	Outer Dia. (mm)	Thickness (mm)	Frequency Range
DRD0460206M□□□00T	4.65 ±0.05 mm	2.06 ±0.05 mm	11.46~12.45 GHz
DRD0510224M□□□00T	5.06 ±0.05 mm	2.24 ±0.05 mm	10.54~11.46 GHz
DRD0550244M□□□00T	5.50 ±0.05 mm	2.44 ±0.05 mm	9.69~10.54 GHz
DRD0600265M□□□00T	5.98 ±0.05 mm	2.65 ±0.05 mm	8.91~9.69 GHz
DRD0650288M□□□00T	6.50 ±0.05 mm	2.88 ±0.05 mm	8.20~8.91 GHz
DRD0710314M□□□00T	7.07 ±0.05 mm	3.14 ±0.05 mm	7.54~8.20 GHz
DRD0770341M□□□00T	7.69 ±0.05 mm	3.41 ±0.05 mm	6.93~7.54 GHz
DRD0840371M□□□00T	8.36 ±0.05 mm	3.71 ±0.05 mm	6.38~6.93 GHz
DRD0910403M□□□00T	9.09 ±0.05 mm	4.03 ±0.05 mm	5.87~6.38 GHz
DRD0990438M□□□00T	9.88 ±0.05 mm	4.38 ±0.05 mm	5.40~5.87 GHz
DRD1070477M□□□00T	10.75 ±0.05 mm	4.77 ±0.05 mm	4.96~5.40 GHz
DRD1170518M□□□00T	11.68 ±0.05 mm	5.18 ±0.05 mm	4.56~4.96 GHz
DRD1270563M□□□00T	12.70 ±0.05 mm	5.63 ±0.05 mm	4.20~4.56 GHz
DRD1380613M□□□00T	13.81 ±0.05 mm	6.13 ±0.05 mm	3.86~4.20 GHz
DRD1500666M□□□00T	15.02 ±0.05 mm	6.66 ±0.05 mm	3.55~3.86 GHz
DRD1630724M□□□00T	16.33 ±0.05 mm	7.24 ±0.05 mm	3.27~3.55 GHz
DRD1780788M□□□00T	17.76 ±0.05 mm	7.88 ±0.05 mm	3.00~3.27 GHz
DRD1930856M□□□00T	19.31 ±0.05 mm	8.56 ±0.05 mm	2.76~3.00 GHz
DRD2100931M□□□00T	21.00 ±0.05 mm	9.31 ±0.05 mm	2.54~2.76 GHz
DRD2281013M□□□00T	22.83 ±0.05 mm	10.13 ±0.05 mm	2.34~2.54 GHz
DRD2481101M□□□00T	24.82 ±0.05 mm	11.01 ±0.05 mm	2.15~2.34 GHz
DRD2701197M□□□00T	26.99 ±0.05 mm	11.97 ±0.05 mm	1.98~2.15 GHz
DRD2931302M□□□00T	29.35 ±0.05 mm	13.02 ±0.05 mm	1.82~1.98 GHz
DRD3191415M□□□00T	31.91 ±0.05 mm	14.15 ±0.05 mm	1.67~1.82 GHz
DRD3471539M□□□00T	34.70 ±0.05 mm	15.39 ±0.05 mm	1.54~1.67 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

• M series

Characteristic Code	Frequency Temperature Coefficient (τf) (ppm/°C)	Dielectric Constant (εr)		Q (at 7GHz)
		①	②	
00	0	38.5±1.0	37.7±1.0	7,400 min.
20	2	38.7±1.0	37.9±1.0	7,200 min.
40	4	38.9±1.0	38.2±1.0	7,100 min.
60	6	39.2±1.0	38.4±1.0	7,000 min.

① : DRD046-DRD107 Type

② : DRD117-DRD347 Type