⚠Note Please read rating and ⚠CAUTION (for storage and operating, rating, soldering and mounting, handling) in this PDF catalog to prevent smoking and/or burning, etc.
This catalog has only typical specifications. Therefore, you are requested to approve our product specification or to transact the approval sheet for product specificaion before ordering.
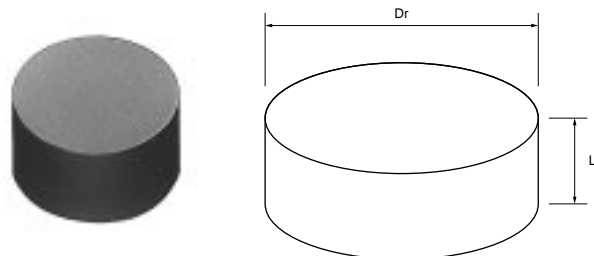
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Dielectric Resonators (RESOMICS®)

muRata

Dielectric Resonator V Series (DRD Type)

5

■ Features

1. High Q of 12,000 at 10GHz
2. High dielectric constant : Er=34
3. Resonant frequency temperature coefficient can be chosen from 0 to 10ppm/(degree C). Tolerance of frequency temperature coefficient can be chosen from +-0.5, +-1 and +-2ppm/(degree C).
4. Dielectric resonator are chosen from the frequency range of 3 to 13GHz in disk type (DRD).

Part Number	Outer Dia. (mm)	Thickness (mm)	Frequency Range
DRD0460206V☐☐☐00T	4.65 ±0.05 mm	2.06 ±0.05 mm	12.07~13.24 GHz
DRD0510224V☐☐☐00T	5.06 ±0.05 mm	2.24 ±0.05 mm	11.10~12.07 GHz
DRD0550244V☐☐☐00T	5.50 ±0.05 mm	2.44 ±0.05 mm	10.20~11.10 GHz
DRD0600265V☐☐☐00T	5.98 ±0.05 mm	2.65 ±0.05 mm	9.39~10.20 GHz
DRD0650288V☐☐☐00T	6.50 ±0.05 mm	2.88 ±0.05 mm	8.64~9.39 GHz
DRD0710314V☐☐☐00T	7.07 ±0.05 mm	3.14 ±0.05 mm	7.93~8.64 GHz
DRD0770341V☐☐☐00T	7.69 ±0.05 mm	3.41 ±0.05 mm	7.30~7.93 GHz
DRD0840371V☐☐☐00T	8.36 ±0.05 mm	3.71 ±0.05 mm	6.71~7.30 GHz
DRD0910403V☐☐☐00T	9.09 ±0.05 mm	4.03 ±0.05 mm	6.17~6.71 GHz
DRD0990438V☐☐☐00T	9.88 ±0.05 mm	4.38 ±0.05 mm	5.68~6.17 GHz
DRD1070477V☐☐☐00T	10.75 ±0.05 mm	4.77 ±0.05 mm	5.22~5.68 GHz
DRD1170518V☐☐☐00T	11.68 ±0.05 mm	5.18 ±0.05 mm	4.80~5.22 GHz
DRD1270563V☐☐☐00T	12.70 ±0.05 mm	5.63 ±0.05 mm	4.42~4.80 GHz
DRD1380613V☐☐☐00T	13.81 ±0.05 mm	6.13 ±0.05 mm	4.06~4.42 GHz
DRD1500666V☐☐☐00T	15.02 ±0.05 mm	6.66 ±0.05 mm	3.74~4.06 GHz
DRD1630724V☐☐☐00T	16.33 ±0.05 mm	7.24 ±0.05 mm	3.44~3.74 GHz
DRD1780788V☐☐☐00T	17.76 ±0.05 mm	7.88 ±0.05 mm	3.16~3.44 GHz
DRD1930856V☐☐☐00T	19.31 ±0.05 mm	8.56 ±0.05 mm	2.91~3.16 GHz

Codes for temperature coefficient of resonant frequency and the tolerance should be put into the boxes, three blank columns of the above Part Numbers.
Please see the "Part Numbering". (ex.) 2.0+-1.0ppm/°C : 20A

■ Freq. Temp. Coefficient, Dielectric Constant and Q

• V series

Characteristic Code	Frequency Temperature Coefficient (τf) (ppm/°C)	Dielectric Constant (εr)	Q (at 10GHz)
00	0	33.5±0.5	
20	2	33.9±0.5	
40	4	34.3±0.5	10,000 min.
60	6	34.7±0.5	
80	8	35.1±0.5	

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