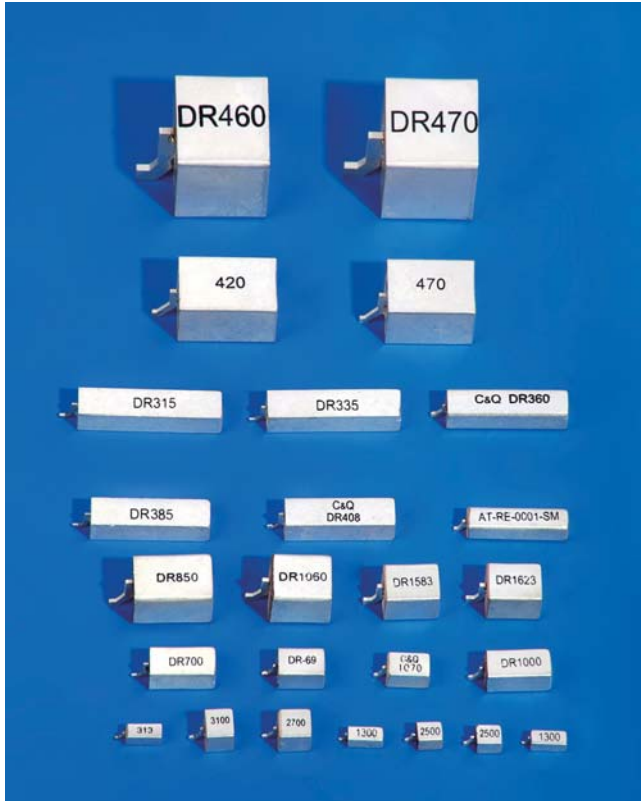
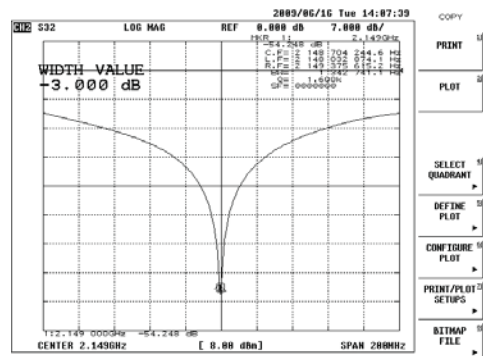
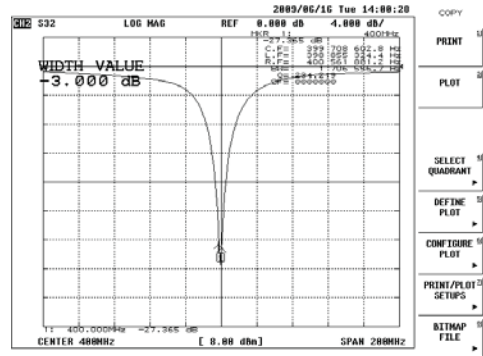


TEM Mode Dielectric Resonator

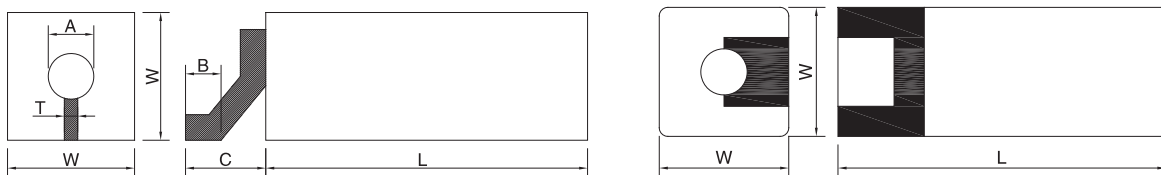
-For wireless telecommunication, mobile telecommunication, power supply resonator, wireless tone equipment, duplexer, filter, etc.
-适用于无线通讯、移动通讯、电源振荡器、无线话音设备、双工器、滤波器的装配等。



Typical Characteristic (波形特性)



Dimension (尺寸) (Unit:mm)



◆ Principal Parameters(主要参数)

Type类型	Part项目	W(O/D) 边宽(mm)	A(I/D) 内孔直径(mm)	B 引脚焊点宽度(mm)	C 引脚长度(mm)	T 引脚厚度(mm)
D120		12.0 ± 0.2	① φ 4.0 ± 0.2 ② φ 3.55 ± 0.2	Without tab 1.5	/ 3.2	/ 1.0
D100		10.0 ± 0.2	① φ 3.3 ± 0.2	1.3	3.0	1.0
D80		8.0 ± 0.2	① φ 2.7 ± 0.2	1.3	2.6	0.7
D60		6.0 ± 0.2	① φ 2.5 ± 0.2 ② φ 2.2 ± 0.2 ③ φ 2.0 ± 0.2	without tab 1.2	/ 2.4	/ 0.7
D50		5.0 ± 0.2	① φ 1.8 ± 0.2 ② φ 1.5 ± 0.2	1.0	2.2	0.6
D40		4.0 ± 0.1	① φ 1.8 ± 0.1 ② φ 1.5 ± 0.1 ③ φ 1.2 ± 0.1	0.8 without tab	1.8 /	0.6 /
D30		3.0 ± 0.1	① φ 1.0 ± 0.1	0.7	1.5	0.5
D20		2.0 ± 0.1	① φ 0.6 ± 0.1	0.5	1.2	0.5

Note: The data for reference only, Design it as customer's request. 以上参数仅作为参考，可根据用户要求设计。

TEM Mode Dielectric Resonator

-For wireless telecommunication, mobile telecommunication, power supply resonator, wireless tone equipment, duplexer, filter, etc.
-适用于无线通讯、移动通讯、电源振荡器、无线话音设备、双工器、滤波器的装配等。

◆ Available Range of TEM Mode Resonators(TEM模式谐振器特性范围)

Material 材料	Dielectric Constant 介电常数	Tf ¹⁾ 频率温度稳定性	Type 类型	Characteristic Impedance(Ω) 阻抗	Wave Length 波长	Frequency Range(MHz) 频率范围	Q ²⁾ (min) 品质因素
A Series A系列	20 ± 1	0 ± 10	D120	①15 ②17	λ/4	800~1300	1000
					λ/2	1600~2700	800
			D100	16	λ/4	800~1300	700
					λ/2	1600~3200	800
			D080	15	λ/4	1000~3200	650
					λ/2	2000~3000	700
			D060	①12 ②14 ③15	λ/4	1000~2700	550
					λ/2	2000~3000	600
			D050	①14 ②17	λ/4	1300~3000	450
					λ/2	2500~4000	500
D040	①11 ②14 ③17	λ/4	1300~4000	380			
		λ/2	2500~4000	400			
D030	15	λ/4	1900~4000	320			
D020	17	λ/4	2800~5000	250			
B Series B系列	36 ± 1	0 ± 10	D120	①12 ②13	λ/4	600~1000	700
					λ/2	1200~2400	900
			D100	12	λ/4	600~1200	600
					λ/2	1200~2400	800
			D080	12	λ/4	800~1500	500
					λ/2	1600~3000	700
			D060	①10 ②11 ③12	λ/4	800~1800	450
					λ/2	1600~3500	550
			D050	①11 ②13	λ/4	800~1800	380
					λ/2	1600~3500	450
D040	①9 ②11 ③13	λ/4	1000~2700	320			
		λ/2	2000~4800	400			
D030	12	λ/4	1300~300.00	220			
D020	13	λ/4	1300~3000	220			
C Series C系列	80 ± 2	0 ± 10	D120	①7 ②8	λ/4	400~800	650
					λ/2	800~1500	700
			D100	7	λ/4	600~800	550
					λ/2	1200~2400	650
			D080	7	λ/4	440~1000	450
					λ/2	1000~1500	550
			D060	①6 ②7 ③7	λ/4	440~1300	400
					λ/2	1000~2200	470
			D050	①7 ②8	λ/4	500~1800	380
					λ/2	1000~3000	450
D040	①6 ②7 ③8	λ/4	900~1600	200			
		λ/2	2000~4800	300			
D030	7	λ/4	900~1600	250			
D020	8	λ/4	900~1600	150			

Note:The data for reference only, Design it as customer's request.以上参数仅作参考，可根据用户要求设计。

- 1)Frequency stability of temperature 频率温度稳定性
2)Q value depends on lower limit of frequency range Q值是指频率范围下限时所测值

Method of Definition (命名方式)

C&Q DR □□ () □
① ② ③ ④ ⑤

- ① C&Q
- ② Dielectric resonator
- ③ Dimension
- ④ Center frequency(MHz)
- ⑤ N
- T

- ① C&Q
- ② 介质谐振器
- ③ 边长
- ④ 中心频率
- ⑤ 无引脚
- ⑥ 有引脚

1/2波长, 长度计算公式
 $L=C/2fo\sqrt{\epsilon r} (\lambda/2)$
 L: Length of resonator
 C: Constant (3*10⁵)
 fo: Resonator Frequency
 er: Dielectric constant
 阻抗计算公式
 $Zo = \frac{138}{\sqrt{\epsilon r}} \times \log \frac{1.08xW}{A}$
 er: Dielectric constant
 W: O/D
 A: I/D

1/4波长, 长度计算公式
 $L=C/4fo\sqrt{\epsilon r} (\lambda/4)$
 L: 谐振器长度
 C: 常数 (光速)
 fo: 谐振器频率
 er: 介电常数
 er: 介电常数
 W: 边宽
 A: 内孔直径

Operation instructions (使用说明)

TEM模安装时需注意焊装面的边线和谐振面的接地边需重合，否则会影响频率。

TEM mode resonator installation should pay attention to welding side edges and resonator's ground side edges to be coincidence, otherwise it will affect the frequency