

Q₃ Laboratory (Coaxial Resonators)

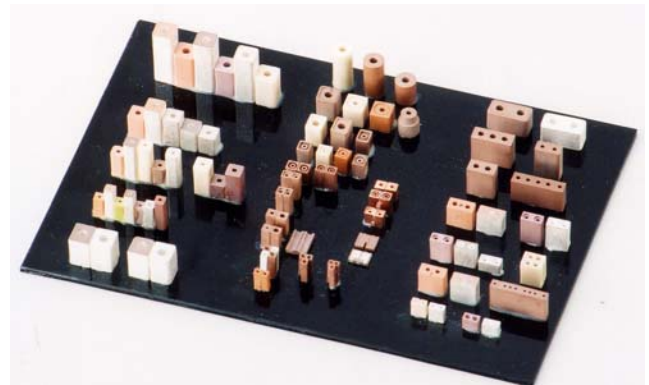
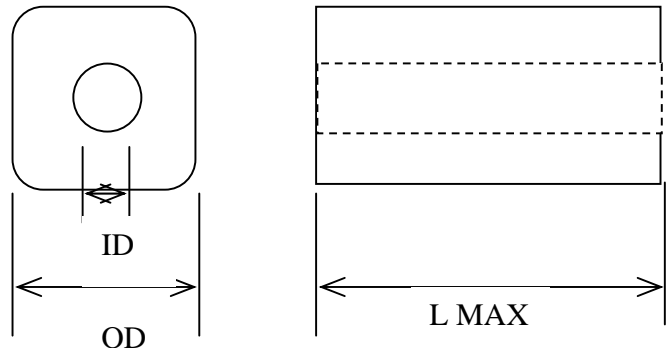
The resonator specialist

Coaxial Resonator Standard Size List

(unit:mm)

Size Code	OD □	ID φ	L MAX
D150	1.5	0.62	11.0
D175	1.75	0.68	11.0
D200	2	0.83	10.0
D210	2.1	0.83	6.5
D230	2.3	0.83	8.0
D250	2.5	0.90	11.0
D260	2.6	0.83	10.0
D265	2.65	0.90	13.0
D280	2.8	0.89	11.0
D285	2.85	1.03	11.0
D291	2.91	0.89	13.0
D300	3	0.98	14.0
D305	3.05	0.78	14.0
D333	3.3	0.83	10.0
D340	3.4	1.16	15.0
D350	3.5	1.17	15.0
D400	4	1.20	26.0
D500	5	1.48	26.0
D600	6	2.22	33.0
D600	6	2.35	33.0
D670	6x7	2.35	33.0
D700	7	2.35	15.0
D800	8	2.59	40.0
D1000	10	2.85	45.0
D1200	12	3.50	45.0
D1700	17	5.25	45.0

Size Code	OD φ	ID φ	L MAX
D560C	5.6	1.47	20.0
D620C	6.2	2.48	20.0
D1360C	13.6	4.04	30.0
D1600C	16	5.25	55.0
D1700C	17	4.62	55.0
D2450C	24.5	8.56	55.0
D3000C	30	8.84	55.0
D4500C	45	12.80	55.0



Frequency tolerance $\pm 0.7\%$ MAX

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Q3 Dielectric Material

Microwave Dielectric Materials

Material Code	Dielectric Constant ϵ_r	$F_0 \times Q$ Value	Temperature Coefficient τf (ppm/°C)	Density (g/cm ³)	Color	System
DME-9	9 ± 1	>58,000 (@9.5GHz)	6 ± 5	3.3	Brown	Mg-Si-Al-CT sys.
DME-21	21 ± 1	>60,000 (@6.5GHz)	5 ± 5	3.7	Brown	Mg-Ca-Ti sys.
DME-30	30 ± 1	>80,000 (@5.5GHz)	2 ± 3	7.7	Yellow	Hi-Q, Ta sys.
DME-34	34 ± 1	>45,000 (@5.0GHz)	6 ± 5	4.6	Brown	Ba-Ti, Low Cost
DME-35	34 ± 1	>80,000 (@5.0GHz)	5 ± 3	6.4	Brown	Hi-Q, Ta sys.
DME-36	36 ± 2	>30,000 (@5.0GHz)	0 ± 5	4.6	Ivory	Low Cost Type
DME-38	38 ± 1	>47,000 (@5.0GHz)	0.7 ± 0.5	5.1	Green	Zn-Sn-Ti sys.
DME-40	40 ± 1	>70,000 (@5.0GHz)	3 ± 5	5.6	Brown	La-Al-Ca-Ti sys.
DME-45	47 ± 1	>46,000 (@6.0GHz)	0 ± 10	6.0	Ivory	La-Ba-Ti sys.
DME-70	72 ± 1	>9,000(@3.5GHz)	0 ± 2	5.5	Beige	
DME-90	93 ± 1	> 6,000 (@3.0GHz)	9 ± 4	5.6	Purple	Ba-Nd-Ti sys.
DME-90N	93 ± 1	> 5,800 (@3.0GHz)	9 ± 4	5.7	Yellow	Ba-Sm-Ti, Low cost
DME-96	98 ± 2	>4,500 (@3.5GHz)	15 >	5.7	Purple	Ba-Nd-Ti sys.
DME-113	113 ± 3	> 3,000 (@2.0GHz)	20 ± 10	5.7	Brown	

Q3 Laboratory / Q3 Gifu

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