

KYOCERA HIGH-PERFORMANCE CERAMICS

High-Dielectric Ceramic Materials

Material	A479E	SF210K	SB350	SV380	SG390	SV440	SH700
Dielectric Constant	9.8	21.5	35	39	40	44	67
Qf [GHz]	80,000	70,000	45,000	40,000	80,000	44,000	14,500
Q (measured frequency)	10,000 (8GHz)	14,000 (5GHz)	11,250 (4GHz)	10,000 (4GHz)	21,000 (3.8GHz)	12,500 (3.5GHz)	4,600 (3.1GHz)
Temp. Coeff. of Freq. [ppm / deg.C]	—	-3...+3	0...+8	-7...+7	-3...+8	-7...+8	+4.5...+7.5
Density [g / cm ³]	3.8	3.8	4.8	5.1	5.6	4.8	5.7
Color	White	Gray	Ivory	Brown	Brown	Brown	Purple
Application	TE01 δ Resonator 270MHz			○			○
	TE01 δ Resonator 350MHz			○			○
	TE01 δ Resonator 800MHz			○			○
	TE01 δ Resonator 1.5-3.5GHz			○	○	○	○
	TE01 δ Resonator 5-14GHz			○	○	○	○
	TE01 δ Resonator 14-20GHz					○	
	TE01 δ Support	○					
	TM Resonator 800-900MHz			○			○
	TM Resonator 1.8-3.5GHz		○	○		○	○

