

Ceracomp Piezoelectric Single Crystals (Soft, Semi-Hard & Hard)

Ceracomp Single Crystals	Soft Type SC							Semi-Hard Type SC				Hard Type SC		
	CSL10	CSL11	CSL20	CSL30	CSL40	CSL50	CSL60	CSM10	CSM40	CSM50	CSM60	CSH40	CSH50	CSH60
K^T [$\epsilon_{33}^T/\epsilon_0$]	5,500	6,000	10,000	8,000	6,500	5,500	4,500	5,000	4,000	3,000	2,500	3,000	2,500	2,000
$\tan \delta$ [%]	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.3	< 0.3	< 0.3
T_C [°C]	140	140	130	150	160	180	200	140	160	180	200	160	180	200
T_{RT} [°C]	85	80	75	85	100	120	135	80	100	120	135	100	120	135
d_{33} [pC/N]	1,550	2,000	3,000	2,500	2,000	1,800	1,500	1,500	1,300	1,200	1,100	1,000	850	700
d_{32} [pC/N]	-1,300	-1,300	-2,500	-2,000	-1,750	-1,600	-1,350	-1,300	-1,150	-1,000	-900	-900	-700	-600
k_{33}	0.9	0.9	0.94	0.93	0.92	0.91	0.9	0.9	0.9	0.89	0.88	0.88	0.86	0.85
k_{32}	0.88	0.88	0.9	0.9	0.9	0.88	0.88	0.88	0.88	0.87	0.86	0.85	0.84	0.8
E_C [kV/cm]	2.5	3.0	3.0	3.5	4.0	4.0	5.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0
Q_m	< 100	< 100	< 100	< 100	< 100	< 100	< 100	> 400	> 400	> 400	> 400	> 600	> 850	> 850