Specifications For Material 2016-12-17

Model	Coupling factors				Dielectric constants	Dielectric loss	Piezoelectric constant				Elastic compliance constant	Mechanical quality factor	Sound velocity (m / s)				Volume density	Curie point	Young modulus	Poisson ratio
	Kp	K31	K33	Kt	ε^{T}_{r3}	Tg δ %	d31 (-10^{-12}m/v)	d33 (10^{-12}m/v)	g31 (10^{-3}vm/n)	g33 (10^{-3}vm/n)	S^{e}_{11} ($10^{-12}m^2$/n)	Qm	V_d	V_1	V_3	V_t	ρ (10^3Kg/m^2)	Tc (℃)	$Y^{E}_{11}<10^{9}N/m^2$	σ E
P-51	0.62	0.35	0.68	0.50	2200	2	186	500	9.6	25.6	16.7	80	3000	2900	3800	4500	7.6	270	60	0.36
p-52	0.63	0.35	0.70	0.50	2400	2	204	520	9.8	24.5	17	75	3000	2900	3800	4000	7.6	270	59	0.36
P-53	0.64	0.36	0.70	0.50	2600	2	227	550	9.9	23.9	17.4	75	2950	2830	3510	3950	7.6	270	57.5	0.36
PSnN-5	0.60	0.35	0.68	0.50	1600	2	170	400	12	28	16.6	85	3100	2950	3650	4000	7.5	350	60	0.36
PMgN-51	0.64	0.35	0.70	0.52	3800	1.8	270	600	8	18	18	70	3000	2900	3600	3850	7.6	270	56	0.36
P-41	0.58	0.32	0.66	0.48	1050	0.3	106	260	11.4	28	11.8	1000	3475	3300	3900	4200	7.5	320	85	0.3
P-42	0.58	0.33	0.67	0.48	1250	0.4	124	280	11.2	25.3	12.7	800	3380	3240	3800	4160	7.5	320	79	0.3
P-43	0.58	0.34	0.68	0.48	1420	0.5	138	300	11	24	13.2	600	3360	3200	3750	4150	7.5	320	76	0.3
P-82	0.52	0.30	0.57	0.40	1100	0.3	100	240	10.3	25	11.6	1200	3500	3500	3900	4200	7.6	310	86	0.3
PZT-5H	0.68	0.38	0.76	0.52	3200	2	275	620	9.7	22	18	70	2850	2800	3100	3900	7.5	230	56	0.36
PZT-5X	0.70	0.40	0.77	0.53	4500	2	300	750	7.5	18.8	19	65	2850	2800	3100	3850	7.5	165	53	0.39
PCrN-4	0.60	0.35	0.68	0.45	1600	0.6	156	350	11	24.7	14	400	3300	3100	3700	4100	7.5	310	71	0.3
PliS-51	0.62	0.35	0.70	0.52	2000	2	197	450	11.1	25.4	18	80	3100	2950	3850	4500	7.5	345	56	0.36
PbaS-4	0.59	0.34	0.68	0.49	1900	0.5	160	380	9.5	22.6	13.2	2200	3400	3200	3700	4250	7.5	310	76	0.33
BaTio3	0.34	0.196	0.43	0.32	1260	0.5	60	160	5.4	14.3	8.4	1200	4800	Frequency constant NP3180	 N12280	5350	5.6	115	119	0.33