

Piezoelectric Constants for 3203HD

Dielectric Constant	K_3^T	3800
	K_1^T	3200
	K_3^S	1200
Charge Coefficients	d_{31} (m/V or C/N)	-320×10^{-12}
	d_{33} (m/V or C/N)	650×10^{-12}
	d_{15} (m/V or C/N)	1000×10^{-12}
Coupling Coefficients	k_{31}	0.43
	k_p	0.75
	k_{33}	0.78
	k_t	0.55
	k_{15}	0.78
Elastic Constants	c_{33}^D (N/m ²)	$17.7 \times 10^{-12}^*$
	s_{11}^E (m ² /N)	16.6×10^{-12}
	s_{12}^E (m ² /N)	$-4.2 \times 10^{-12}^*$
	s_{13}^E (m ² /N)	$-8.2 \times 10^{-12}^*$
	s_{33}^E (m ² /N)	21×10^{-12}
	s_{15}^E (m ² /N)	52.4×10^{-12}
	s_{11}^D (m ² /N)	13.2×10^{-12}
	s_{33}^D (m ² /N)	7.6×10^{-12}
	s_{15}^D (m ² /N)	20.6×10^{-12}

* S. Sherit, H. D. Wiederick, B. K. Mukherjee, "A Complete Characterization of the Piezoelectric, Dielectric, and Elastic Properties of Motorola PZT 3203HD including Losses and Dispersion."

All other data based on CTS measurements.

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