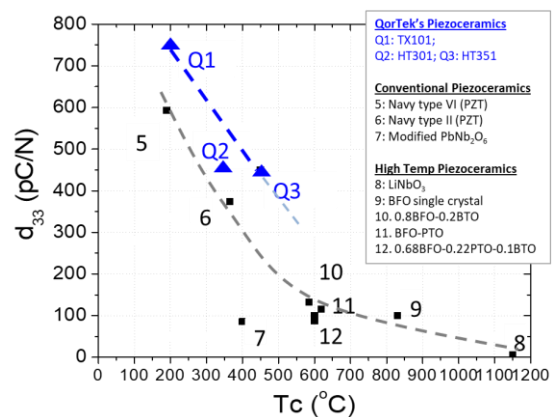
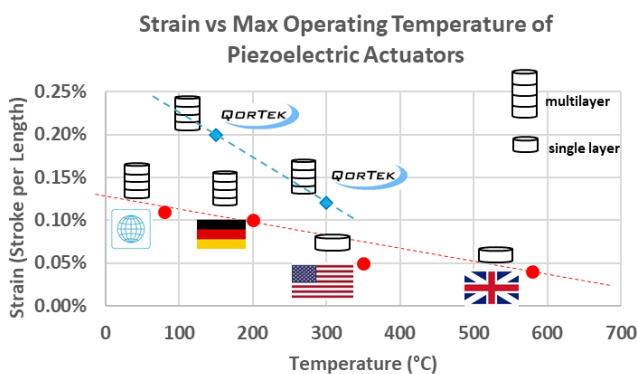


Property		Units	HT301	HT351
Thermal Properties				
Curie Temperature		°C	350	450
Safe Operating Temperature		°C	300	350
Mechanical Properties				
Density	ρ	g/cm ³	7.67	7.5
Electrical Properties				
Dielectric Constant	ϵ_{33}^T	-	1913	1472
	ϵ_{11}^T	-		
Dielectric Loss	$\tan\delta$	%	1.63	2.15
Piezoelectric Properties				
Coupling Factors	k_p	-	0.61	0.50
	k_{31}	-		
	k_{33}	-		
	k_t	-		
	k_{15}	-		
Charge or Strain Constants	d_{31}	pC/N		
	d_{33}	pC/N	461	450
	d_{15}	pC/N		
Voltage or Strain Constants	g_{33}	$\times 10^{-3}$ V m/N	27	34.5
	g_{31}	$\times 10^{-3}$ V m/N		
Frequency Constants	N_p	Hz-m		
	N_t	Hz-m		
Mechanical Quality Factor	Q_m	-	77	



V07092020WTC

Typical Values measured at $20^\circ\text{C} \pm 1^\circ\text{C}$ are provided for design information only. Standard tolerances are approximately $\pm 20\%$ of these values. Material properties are measured according to standard IEEE and DOD definitions and measuring techniques.