

		NSTX BASE	NSTX CSU	Checker (NSTX_CSU)	Checker Comment
OH R inside tension tube	in	4.0783	7.9940	Chrz	
dRtension tube	in	0.1580	0.0000	Chrz	
Teflon Slip Plane	in	0.0080	0.0080	Chrz	
OH Ground Plane (inner) thickness	in	0.0079	0.0079	Chrz	
OH Ground insulation (inner)	in	0.0324	0.1080	Chrz	
OH Turn insulation	in	0.0268	0.0480	Chrz	
OH Ground & turn insulation (inner)	in	0.0592	0.1560	Chrz	
OH Rcuinner	in	4.3114	8.1659	Chrz	
OH Rcuouter	in	6.0928	10.8958	Chrz	
OH Ground insulation (outer)	in	0.0324	0.1080	Chrz	
OH Ground & turn insulation (outer)	in	0.0592	0.1560	Chrz	
OH Ground Plane (outer) thickness	in	0.0000	0.0079	Chrz	
OH dZcu	in	166.9921	166.9921	Chrz	
OH #turns	turns	964	884	Chrz	
OH #layers	layers	4	4	Chrz	
OH Conductor width	in	0.4051	0.6105	Chrz	
OH Conductor height	in	0.6393	0.6598	Chrz	
OH Cooling hole diameter	in	0.1880	0.2250	Chrz	
OH Conductor corner radius	in	0.0390	0.0390	Chrz	
OH Packing fraction		0.7452	0.7013	Chrz	
OH Voltage	Volt	6077	6077	Ramakrish	
OH Current Base	Amp	24000	24000	Ramakrish	
OH Tesw (L/R decay)	s	0.431	1.473	Hatcher	
OH Action (L/R decay)	A ² -s	2.48E+08	8.48E+08	Hatcher	
OH Turn-Turn voltage stress factor		0.50	0.50	Chrz	
OH Turn-Turn voltage stress max	Volt/mil	57	32	Chrz	
OH Voltage stress max turn-ground (inner)	Volt/mil	120	49	Chrz	
OH Voltage stress max turn-ground (outer)	Volt/mil	136.4	51.8	Chrz	
OH Hipot Voltage	Volt	17154	17154	Chrz	
OH Voltage stress max turn-ground (inner) (hipot)	Volt/mil	255.3	104.6	Chrz	
OH Voltage stress max turn-ground (outer) (hipot)	Volt/mil	289.8	110.0	Chrz	
OH Inlet Coolant Temp	C	12	12	Zolfaghari	AMZ
OH Maximum temp (L/R decay)	C	73	100	Zolfaghari	AMZ
OH Copper Mass	lbs	2341	6184	Chrz	

		NSTX BASE	NSTX CSU	Checker (NSTX_CSU)	Checker Comment
TF Rcuinner	in	0.2819	2.0148	Chrz	
TF Rcuouter	in	3.8465	7.7536	Chrz	
TF dZcu	in	209.8425	212.2500	Chrz	
TF #turns	turns	36	36	Chrz	
TF Ground insulation	in	0.0540	0.1080	Chrz	
TF Turn insulation	in	0.0324	0.0324	Chrz	
TF Ground & turn insulation	in	0.0864	0.1404	Chrz	
TF Cooling hole diameter	in	0.1860	0.3050	Chrz	
TF Coolant flow velocity	feet/s	24.6	11.0	Zolfaghari	AMZ
TF Coolant mass flow	GPM	2.1	2.5	Zolfaghari	AMZ
TF Conductor corner radius	in	0.0390	0.1900	Chrz	
TF Packing fraction		0.8169	0.8418	Chrz	
TF Voltage	volt	1013	1013	Ramakrish	
TF Current	Amp	71168	129778	Ramakrish	
TF Tesw (nominal waveform)	sec	1.19	7.08	Hatcher	
TF Action (nominal waveform)	A^2-s	6.02E+09	1.19E+11	Hatcher	
TF Tesw (L/R Decay)	s	1.40	7.60	Hatcher	
TF Action (L/R Decay)	A^2-s	7.08E+09	1.28E+11	Hatcher	
TF Voltage stress max turn-turn	volt/mil	15.6	15.6	Chrz	
TF Voltage stress max turn-ground	volt/mil	34.9	21.5	Chrz	
TF Turn hipot voltage	volt	3026	3026	Chrz	
TF Ground hipot voltage	volt	7026	7026	Chrz	
TF Voltage stress max turn-turn (hipot)	volt/mil	46.7	46.7	Chrz	
TF Voltage stress max turn-ground (hipot)	volt/mil	81.3	50.0	Chrz	
Coolant Inlet Temp	C	12	12	Zolfaghari	AMZ
TF Inner leg maximum temp (L/R Decay)	C	99	101	Zhang	
TF Outer leg maximum temp (L/R Decay)	C	14	60	Zhang	
Total Copper Mass TF Inner Legs	lbs	2559.9	10900.3	Chrz	
Total Copper Mass TF Outer Legs	lbs	18494.7	18494.7	Chrz	