## F<sub>1</sub>tL<sub>1</sub>tL<sub>1</sub>tL<sub>1</sub>tL<sub>1</sub>**a**, a a P. Da, <sup>a</sup>

r  $ho_0$ 1þlphaðT T $_0$ Þ

 $tL \prime + tL + tL + tL + tL + tL \prime$  PCB (F.5b). S  $tLr \prime + tL + tL \prime$ 



A til' a tila ', a btl til' til" C til'a atitil" a til" PCB , til" a ''' til a 1.7 a () a atitil" til" C til'a , til" " . Tr til b " atl, ' a til" til 'atl ' til" " til' til'. Tr a b , tiltil 'atl ' ''' | til" til til til til' til' til' a a b , til a ' til " atitil'a, ' btl til" til' til' til' a a b , til a '. Tr til " atitil'a, -' til 20 W/  $^2$  °C. Tr til' 'atl a a til' 'S A C ' b a'

Tr tLr rat ara tLr rS AC rb ar tL Tab 1 [3,9 14] r E<sub>A</sub> at Lat r, r, Z tL rar br, D<sub>0</sub> - tL at L,  $\alpha$  tL rat r tLra, tL,  $\rho_0$  tL at Lr ar tL tL,  $\alpha$  tL rat r tLritLra, tL,  $\rho_0$  tL at Lr ar tL tL,  $\alpha$  tL rat r tLritLra, tL,  $\rho_0$  tL at Lr ar tL tL,  $\alpha$  tL rat r tL rat rat rat rat r 1.380662 23,tLr tLr rar e 1.60219 19, a tLr r tL rat r T<sub>0</sub> 303.

 $Tr \ i \ a \ a_i \qquad tL' \ a \ tL \ a' \ tL \ i \ Tab \ 2.$  $Tr \ tL' \ a' \ tL \ tL \ Tab \ 2.$ 

 Tab e 1

 E tL' 'atL | ba a'a tL' [3,9 14].

Para tL r	U <sub>i</sub> tL	Va
EA	V	0.8
Z Do	21	23 0.027
Q	v	0.0094
$ ho_0$	Ω	13.3 8
$\alpha \Omega$	1/K <sup>3</sup> / <b>a</b> L	2.8 3 2.72 29

Tabe2 Mat⊥ra / tL<sup>™</sup>/, /aa<sub>i</sub>a.

MatL ≠a	MatLıa ı	tĽ.	
	S <b>⊭ a</b> L (J/ K)	Trrra tL tL (W/K)	EtLrartLtL (Ω)
PCB S (SAC) S C / E	219 385.2 2185	1.7 57.26 150 393 1.2	$\begin{array}{cccc} 1 & 10 \\ 13.3 & 8(1+2 & 3\Delta T) \\ 4.4 \\ 1.58 & 8(1+4.3 & 3\Delta T) \\ 1 & 17 \end{array}$

rb, brt∐**ra**Lt∐r ar**r**r≀tLtL, tL tLrtL.

## 5. Re

## 5.1. Current density



F.11.C av "tur a vitu tur tu a v B.

Tab e 3									
P / tLa	/ a	í.	‴_tL	tL	tL /	<b>.</b>	a	۰۰ <sub>i</sub> tL <sub>i</sub>	tL.

Tab e 4									
P / tLa	1 a	í.	ν ₁tL	tL	<b>a</b> L	'	γ · <sup>→</sup> 2 <sub>1</sub>	b	•

	C '' tL tL (A/ <sup>2</sup> )		$C \eta tL tL (A/2)$
EtL, ,	0.139 9	EtL,	0.139 9
Pr, B	0.113 9	Pr, A	0.95 8
% D r a	18.71	% Dra	31.65

## 5.2. Temperature distribution

5.3. Mesh dependency



5.4. Divergence analysis

5.4. Divergence analy	/S1S	
Tr a 🐨 tUr / rtUr	vr¦tL ¦tLa¦tL tLvatLrvaa¦a	vatLv boLa, av tLa -
atLti≢ a	tL tL	ratL ( J

- E tL', , , tL a, tL r, , Ma 31 J, 3, FL, USA, 2005. [11] Nar JW, R, F, T KN. E tL', tL, PDT', r, tL, tL, b btL'atL. A Pr L ttL 2006;99:023520. [12] La YS, Cr, KM, Ka CL. E tL', tL, S, 37Pb a, S, 3A 1.5C /S, 3A 0.5C, tL, -r, b, tLr, T/N (V)/C, r b, tLa, M, tL', R ab 2006;48:811 24.