







טר	Power Stage Losses												
Conduction Losses	MOSFETS • R _{on}	IGBTs r_{ce} V_{ce} 	Diodes • V _F • R _d	Inductor • R _{dc}	Capacitors ESR 								
Frequency- Dependent Losses	• C _{oss}	Current tailing	 C_d Reverse- Recovery 	 Skin Effect Core Loss Fringing Proximity 	Dielectric Losses								































































Ur Forrovcubo Curvo Eit Doromotors												
remoxcupe curve fil Parameters												
Power losses in our ferrites have been measured as a function of frequency (f in Hz), peak flux density (B in T) and temperature (T in °C). Core loss density can be approximated ⁽²⁾ by the following formula : $P_{core} = C_m \cdot f^x \cdot B_{peik}^y (ct_0 - ct_1 T + ct_2 T^2) $ [3]												
				=	$c_{m} c_{T}$	f ^x . B ^y _{peak}	[mW/cm ³]					
ferrite	f (kHz)	Cm	х	у	ct ₂	ct ₁	ct ₀					
3C30	20-100	7.13.10 ⁻³	1.42	3.02	3.65.10-4	6.65.10 ⁻²	4					
	100-200	7.13.10 ⁻³	1.42	3.02	4.10-4	6.8 .10 ⁻²	3.8					
3C90	20-200	3.2.10-3	1.46	2.75	1.65.10-4	3.1.10-2	2.45					
3C94	20-200	2.37.10-3	1.46	2.75	1.65.10-4	3.1.10-2	2.45					
	200-400	2.10-9	2.6	2.75	1.65.10-4	3.1.10-2	2.45					
3F3	100-300	0.25.10-3	1.63	2.45	0.79.10-4	1.05.10-2	1.26					
	300-500	2.10-5	1.8	2.5	0.77.10-4	1.05.10-2	1.28					
	500-1000	3.6.10-9	2.4	2.25	0.67.10-4	0.81.10-2	1.14					
3F4	500-1000	12.10-4	1.75	2.9	0.95.10-4	1.1.10-2	1.15					
	1000-3000	1.1.10-11	2.8	2.4	0.34.10-4	0.01.10-2	0.67					
		Tab	le 1: Fit para	ameters to	calculate the	power loss density	/					























