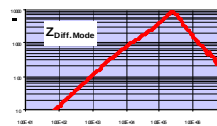
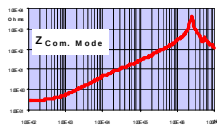
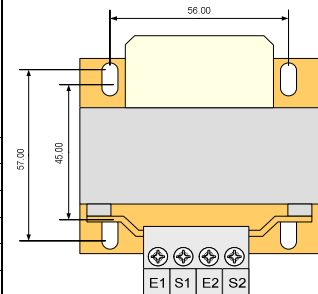
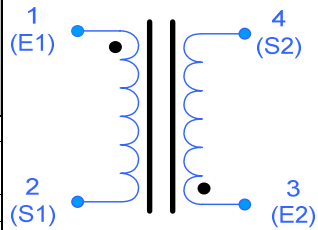


Identification		CERN REF.	CERN N°	Date	Indice	Visa	Update
Project		HCRAAQ001		5/3/2007	01	ythurel	CERN REF
Crea. Date (YYYY-MM-DD)	02 January 2002	CERN The Large Hadron Collider 					
Made by	Y. Thurel						
Verified by	Y. Thurel						
Item	LF Power Inductor			789757_V1_ABPO_A4		2006 11 02	
IDENTIFICATION BLOCK				ELECTRICAL SCHEMA			
MANUFACTURER CODE	MANUFACTURER REFERENCE	SPECIFICATION					
AEM-LE COSINUS	1L243-SC-M451	120A Input BF Differential Mode Inductor Specification					
www.aem.fr		- Inductance Value (L1 serie L2) 24mH (0 Hz 300 Hz) 04mH (250 kHz) 100µH (1.5 MHz) - Max. Vol. : 75 x 75 x 75 mm - Max. Weight : 1.2 kg, No Halogen - Max. Current : 3.6 A_{DC} + 1.7 A_{300Hz} - Max. Ambient T°C : 50°C / Class F - Max. Losses (Iron + Cu) : 12 W - Screw Fixation + Screw Connections - Insulation between windings : 2.5kV 					
							
VALIDATION TESTS Min. - Max.				IMPREGNATION & MARKING			
DIELECTRIC	2500 V _{AC}	RESIST.	Rp + Rs/N² = non applicable in a Flyback Rp = mOhms, Rs1 = Rs2 = mOhms		IMPREGNATION		
TURNS RATIO	L1 / L2 =1	LEAK. IND.	NA		In vacuum: YES classe: E-F		
INDUCT.	L _{TOTAL} = 24 mH ± 5% (0-300Hz, 4 Ap) L1= L2= 6 mH ± 5% (0-300Hz, 4 Ap)	CAP.	C L1 / L2 = 10 pF MAX (10kHz) C L1&L2 / Ground = 60 pF MAX (10kHz)		MARKING		
					Test Pass, Date Code Primary: L1, Secondary L2		