



Theoretical (ideal) values in brackets (xxx)

All capacitor are 6kV ceramic

All inductors are wound on T200-2 cores with 1.2mm diameter Cu enameled wire

Amidon T200-2 cores:  
 $AL=120\mu\text{H}$  (per 100 turns),  $\mu=10$ ,  
 $\phi=50.8\text{mm}$ ,  $\phi_i=31.8\text{mm}$ ,  $h=14.2\text{mm}$ ,

Filter design parameters:

Filter type: 5th order Cauer low-pass filter  
 Cutoff frequency: 145 kHz  
 Pass-band ripple: 0.3 dB  
 Stop-band frequency: 270 kHz  
 Stop-band attenuation: >60 dB  
 Nominal impedance: 50  $\Omega$

Title		
Longwaves low-pass filter unit		
Size	Number	Rev
A3		
Date	Aug. 8th, 2011	Drawn by HB9DUL
Filename		Sheet of