

PCB-mounted filter for digital applications

Space-saving filter for direct mounting on printed circuit boards. Protects digital logic circuits from interference. High attenuation is achieved by using high-inductance, current-compensated chokes. FPNP-E and 411.21.7xxx have an improved differential mode characteristics. Series FPNP is also available with X1-capacitors, type code FPNP-P. X1-capacitors are required in applications where voltage spikes higher than 1200 V may be expected or where the environmental conditions are severe.

Approvals

FPNP, FPNP-E:     

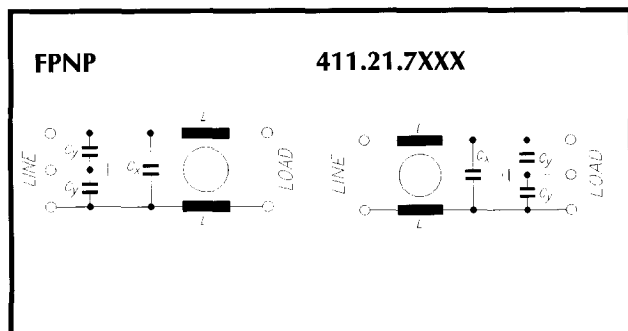
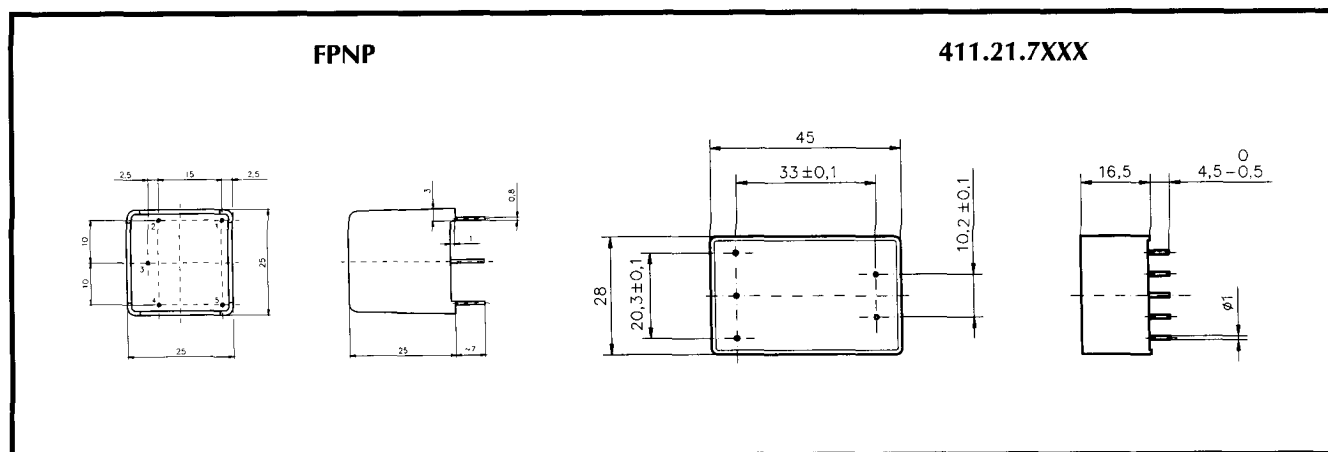
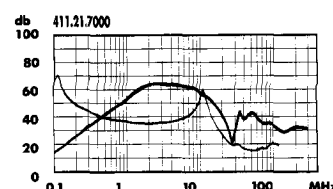
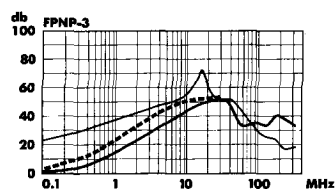
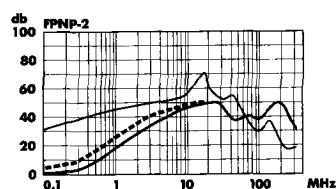
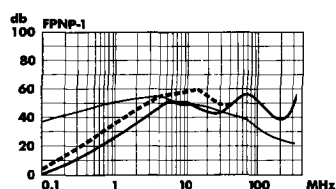
FPNP-P:  

411.21:     

Electrical specifications

Operating voltage	250 V _{AC} max. 400 Hz
Leakage current	See technical data
Rated current	See technical data (For temperature derating, see page 7).
Insulation resistance	Min. 6000 MΩ (100V _{DC}).
Test voltage	P-N 1075 V _{DC} 1 min; (100% test)
Temperature range	P,N-E 1500 V _{AC} 50 Hz 1 min.
Climatic category	-25 ... +85°C. IEC 68 25/85/21, DIN 40040 HPF (see page 7).

— sym. — asym.
- - - FPNP-E sym.



Technical data

Type	Rated current [A] (40°C)	Max. leakage current [mA] (250V 50 Hz)	L [mH]	C _X [μF]	C _Y [pF]	Weight [g]
FPNP-1	1	2x0.21	2x10	0.015	2x2200	30
FPNP-1E	1	2x0.21	2x10	0.047	2x2200	30
FPNP-2	2	2x0.21	2x3.5	0.015	2x2200	30
FPNP-2E	2	2x0.21	2x3.5	0.047	2x2200	30
FPNP-3	3	2x0.21	2x2	0.015	2x2200	30
FPNP-3E	3	2x0.21	2x2	0.047	2x2200	30
4.11.21.7000	0.5	2x0.24	2x40	0.1	2x2500	35
4.11.21.7001	1.6	2x0.24	2x6	0.1	2x2500	35
4.11.21.7002	2.5	2x0.24	2x2	0.1	2x2500	35
4.11.21.7003	4	2x0.24	2x1	0.1	2x2500	35
4.11.21.7012	6.5	2x0.24	2x1	0.1	2x2500	35