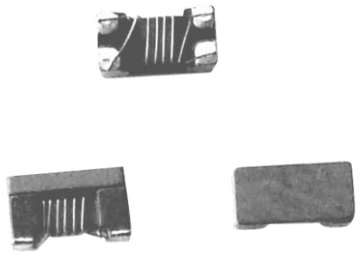
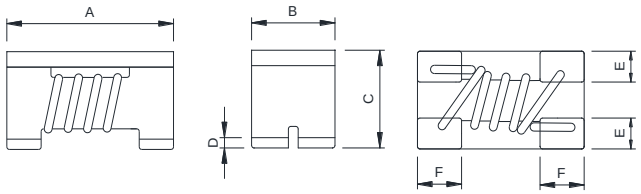
Common Mode Choke – YFD2012HT Series

EXTERNAL DIMENSIONS

(Unit: mm)





TYPE	A	B	C	D	E	F
YFD2012HT	2.0±0.2	1.2±0.2	1.2±0.2	0.2±0.1	0.40 Typ.	0.36 Typ.

Part Number	Z(Ω) Common Mode Impedance at 100MHz	Idc(mA) (Max.)	DCR(Ω) (Max.)	Rated Voltage Vdc (V)Typ.	Characteristic Resistance (Ω)	Insulation Resistance (MΩ)Min.	Cut-off Frequency (GHz)Typ.
YFD2012HT-300-1S	30	300	0.20	20	100	10	6.0
YFD2012HT-600-1S	60	300	0.30	20	100	10	6.0
YFD2012HT-900-1S	90	300	0.30	20	100	10	6.0

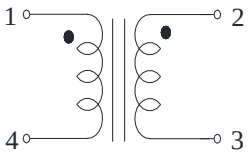
Features

- These broadband common mode filters were developed for high-speed differential signal interfaces, such as DVI and HDMI™.
- The cutoff frequencies in differential mode for YFDxxxxD and YFDxxxxH are 3.5GHz and 6.0GHz respectively, so they do not interfere with high-speed differential signals.
- The characteristic impedance is approximated to 100Ω, conforming to the TDR standard for HDMI™.

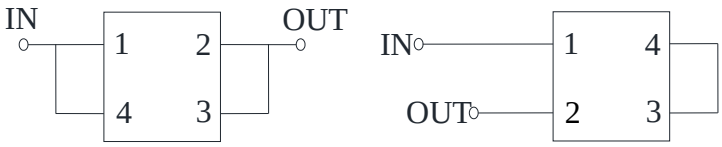
Applications

- For new HDMI™ interfaces used in digital video Used for radiation noise suppression for any electronic devices. devices: YFDxxxxH is suited for use on the transmission side (Source) of digital TVs, DVD recorders and liquid crystal projectors. YFDxxxxD is suited for use on the receiving side (Sink).
- For digital video signal interfaces DVI (UXGA) used in PCs and other devices/High-speed differential signal interfaces for USB 2.0, IEEE1394 and Serial ATA.

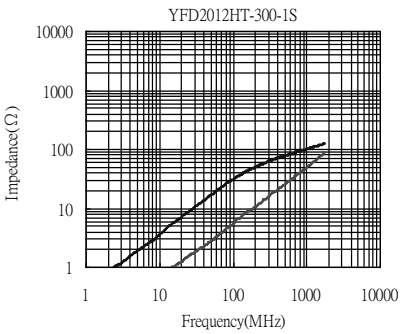
Schematic

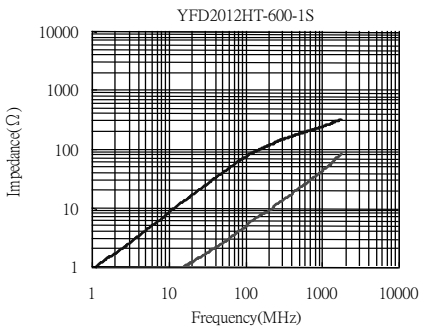


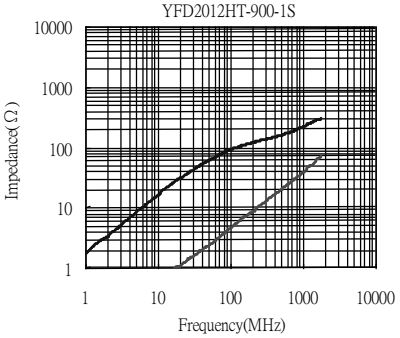
Test Mode



Impedance vs. Frequency







SMT