

# EMC Components

## EMC Filters for AC Power Line

### Inlet-socket Type

## ZUB.U-22, ZUB.D-22 Series

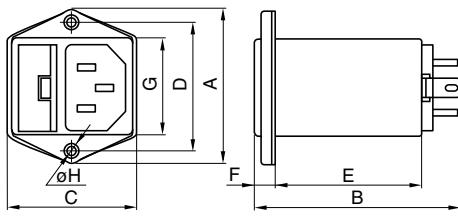
#### FEATURES

- Either single fuse filters(U type) or double fuse filters(D type).
- Internal fuse simplifies maintenance(Without spare fuse).
- Leakage current is maintained below 0.01mA.
- Uses Faston® #250 output terminals, simplifying handling and maintenance, and permitting soldering.

#### APPLICATIONS

Computer terminals, various types of office automation equipment, digital devices(ECRs, etc.), measurement equipment, medical equipment, etc.

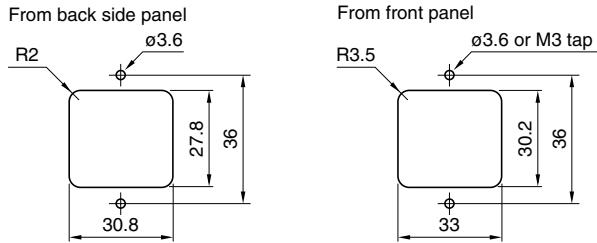
#### SHAPES AND DIMENSIONS



#### SAFETY STANDARDS

Part No.	Standard and standard No.		
	U.S.A.	Canada	Europe
UL1283	UL(NRTL)	CSA	NEMKO
ZUB22XXU-22	2500010135	LR76849C	P01101441
ZUB22XXD-22	2500010135	LR76849C	P01101441

#### Typical dimensions for installation



- Tighten the panel mounting M3 dia. bolt with the torque under  $5.88 \times 10^{-1} \text{ N} \cdot \text{m}$ .

Dimensions in mm

Series	A	B	C	D	E	F	G	ØH
ZUB-U-22	44	59	37	36	41	6	27	3.5
ZUB-D-22	44	68	37	36	41	15	27	3.5

• Case:metal, input terminal:inlet-socket(EN60320), output terminal: Faston® #250(t:0.8mm)

#### ELECTRICAL CHARACTERISTICS

Part No.	ZUB2203U-22	ZUB2206U-22	ZUB2210U-22
Rated voltage Eac (V)	250	250	250
Rated current (A)	3	6	10
Test voltage Eac (V) [Between terminal and ground terminal]	2000	2000	2000
Insulation resistance (MΩ) [DC.500V, 1min/between terminal and ground terminal]	100min.	100min.	100min.
Leakage current (mA) [250V • 60Hz]	0.01max.	0.01max.	0.01max.
DC resistance (mΩ)	150max.	100max.	70max.
Operating temperature range (°C)[Including self-temperature rise]	-25 to +85	-25 to +85	-25 to +85
With derating over(°C)	55	55	55
Temperature rise (°C)	30max.	30max.	30max.
Attenuation frequency range (MHz) [+5 to +35°C]	Differential mode 0.6 to 8[20dB] Common mode 0.4 to 4[20dB]	0.6 to 10[20dB] 0.8 to 4[20dB]	0.6 to 10[15dB] 1 to 20[10dB]
Weight (g)	71	71	71

Part No.	ZUB2203D-22	ZUB2206D-22	ZUB2210D-22
Rated voltage Eac (V)	250	250	250
Rated current (A)	3	6	10
Test voltage Eac (V) [Between terminal and ground terminal]	2000	2000	2000
Insulation resistance (MΩ) [DC.500V, 1min/between terminal and ground terminal]	100min.	100min.	100min.
Leakage current (mA) [250V • 60Hz]	0.01max.	0.01max.	0.01max.
DC resistance (mΩ)	150max.	100max.	70max.
Operating temperature range (°C)[Including self-temperature rise]	-25 to +85	-25 to +85	-25 to +85
With derating over(°C)	55	55	55
Temperature rise (°C)	30max.	30max.	30max.
Attenuation frequency range (MHz) [+5 to +35°C]	Differential mode 0.6 to 8[20dB] Common mode 0.4 to 4[20dB]	0.6 to 10[20dB] 0.8 to 4[20dB]	0.6 to 10[15dB] 1 to 20[10dB]
Weight (g)	76	76	76

• Faston® is a registered trademark of Tyco Electronics AMP Corp. Incorporated.

• All specifications are subject to change without notice.

# EMC Components

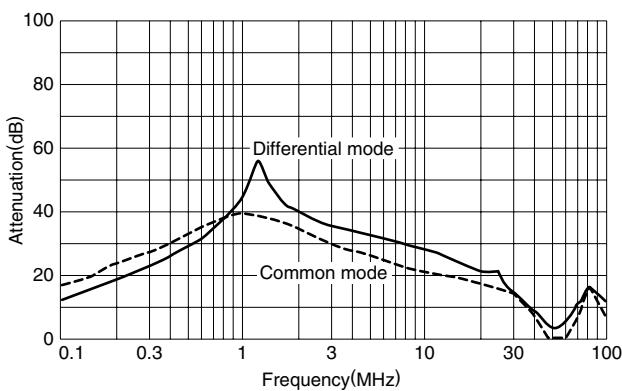
## EMC Filters for AC Power Line Inlet-socket Type

## ZUB.U-22, ZUB.D-22 Series

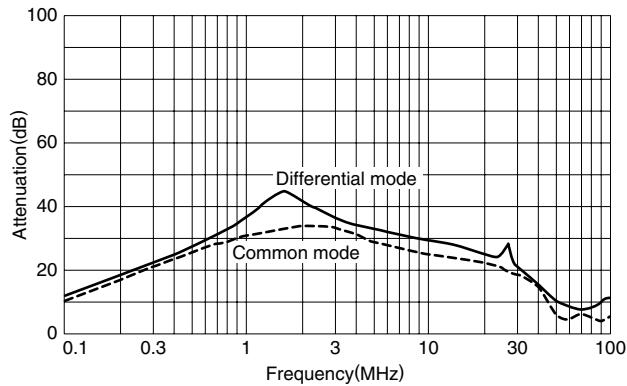
### TYPICAL ELECTRICAL CHARACTERISTICS

#### ATTENUATION vs. FREQUENCY CHARACTERISTICS

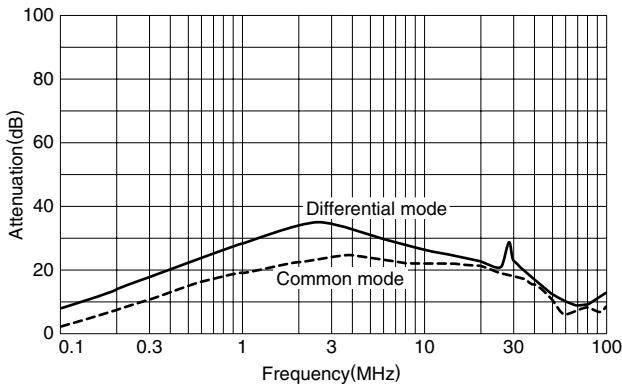
##### ZUB2203U-22/D-22



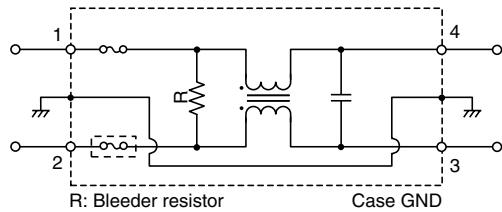
##### ZUB2206U-22/D-22



##### ZUB2210U-22/D-22



### CIRCUIT DIAGRAM



- The U type lacks a fuse within the circuit region indicated by the dashed line.

