

# EMC Components

## EMC Filters for AC Power Supply Inlet-Socket

## ZUMT, ZUST Series

### FEATURES

- The ZUMT and ZUST series are AC inlet sockets with in-line ground inductors in accordance with IEC standards.
- Although highly compact, these filters provide excellent attenuation of the common-mode noise component.
- These sockets are solid molded and offer superior reliability. They are capable of withstanding humidity, vibration, and shock, making them ideal for application in harsh environments.
- The ZUST series features a metal case connected to the ground terminal. By conducting noise current directly to the metal frame, this product effectively prevents input/output coupling.
- Other types of inlet sockets with built-in common-mode choke coils using this form factor can be produced on request.

### SAFETY STANDARDS

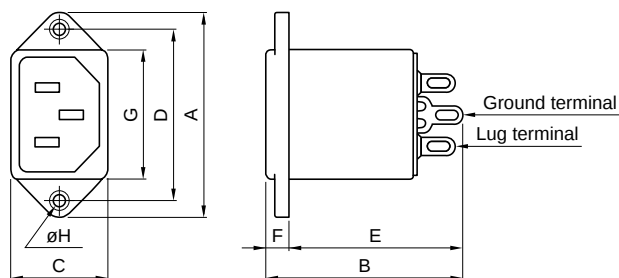
| Part No.    | UL     | CSA      | VDE             |
|-------------|--------|----------|-----------------|
| ZUMT2210-02 | E62388 | LR76849C | 19047-4730-1005 |
| ZUMT2210-05 | E62388 | LR76849C | 19047-4730-1005 |
| ZUST2210-02 | E62388 | LR76849C | 19047-4730-1005 |
| ZUST2210-05 | E62388 | LR76849C | 19047-4730-1005 |

### APPLICATIONS

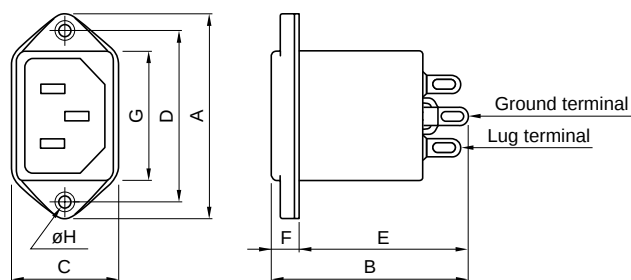
Personal computers, peripheral components (CRT displays, printers, scanners, hard disk drives, etc.), word processors, facsimiles, office automation equipment, electronic games and leisure devices, ECRs, etc.

### SHAPES AND DIMENSIONS

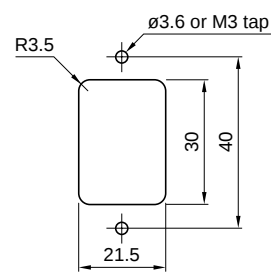
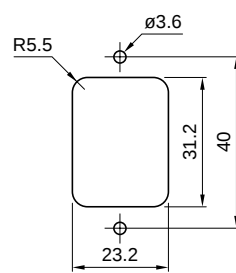
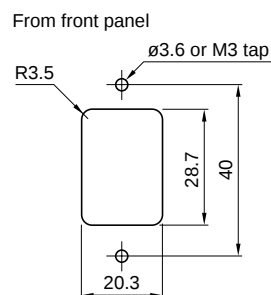
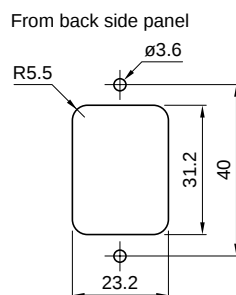
#### ZUMT



#### ZUST



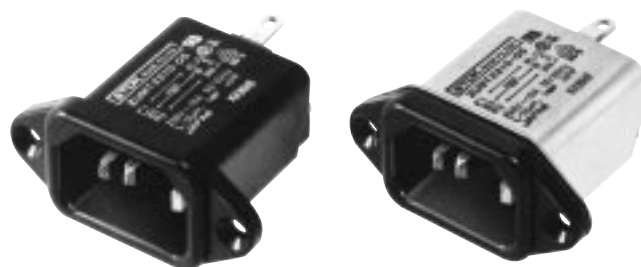
### Typical dimensions for installation



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

| Dimensions in mm |    |    |      |    |      |     |      |     |
|------------------|----|----|------|----|------|-----|------|-----|
| Part No.         | A  | B  | C    | D  | E    | F   | G    | ØH  |
| ZUMT2210-02, -05 | 48 | 46 | 22.5 | 40 | 40.8 | 5.2 | 30.5 | 3.3 |
| ZUST2210-02, -05 | 48 | 46 | 25   | 40 | 40   | 6   | 30.5 | 3.3 |

- Case: plastic (ZUMT), metal (ZUST), input terminal: inlet-socket (EN60320), output terminal: lug terminal



# EMC Components

EMC Filters for AC Power Supply  
Inlet-Socket

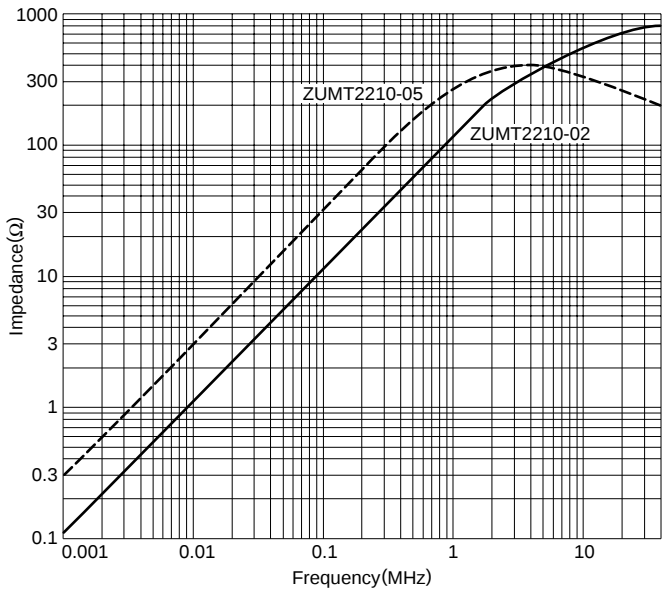
# ZUMT, ZUST Series

## ELECTRICAL CHARACTERISTICS

| Part No.                                                                           | ZUMT2210-02 | ZUMT2210-05 | ZUST2210-02 | ZUST2210-05 |
|------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|
| Rated voltage Eac(V)                                                               | 250         | 250         | 250         | 250         |
| Rated current(A)                                                                   | 10          | 10          | 10          | 10          |
| Test voltage Eac(V)[Between terminal and ground terminal]                          | 1500        | 1500        | 1500        | 1500        |
| Insulation resistance(MΩ)<br>[AC: 500V, 1min/between terminal and ground terminal] | 100min.     | 100min.     | 100min.     | 100min.     |
| DC resistance(mΩ)                                                                  | 5max.       | 5max.       | 5max.       | 5max.       |
| Operating temperature range(°C) [Including self-temperature rise]                  | -25 to +85  | -25 to +85  | -25 to +85  | -25 to +85  |
| Temperature rise(°C) [Applied rated current at ground terminal]                    | 30max.      | 30max.      | 30max.      | 30max.      |
| Inductance(μH) [at 1kHz]                                                           | 11+50, -30% | 55+50, -30% | 11+50, -30% | 55+50, -30% |
| Weight(g)                                                                          | 30          | 30          | 43          | 43          |

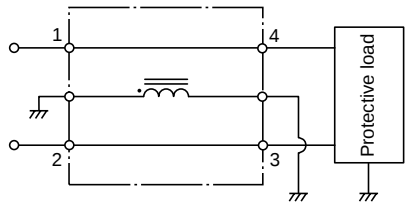
## TYPICAL ELECTRICAL CHARACTERISTICS

### IMPEDANCEvs. FREQUENCY CHARACTERISTICS(Reference)

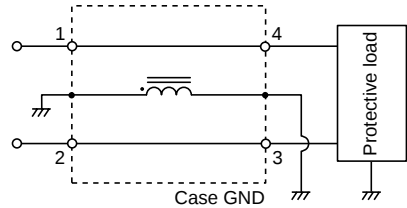


## CIRCUIT DIAGRAMS

### ZUMT



### ZUST



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