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# 15A DE SERIES COMPACT IEC CONNECTOR FILTERS

## INTRODUCTIONS

1. 15DEEG3X: Filter with 120°C temperature socket
2. 15DEEG3X(D): Filter with 65°C temperature socket
3. Safety Approval:
   EG3HA/(D): UL, CSA, TUV
   EG3E/(X)/(DX): EG3M(D): EG3HAX /(X)/(DX): EG3E-R/(X)/(DX): — UL, CSA, VDE
   • (X): (1), (2), (3)
4. UL, CSA approved 15A at 115VAC & 250VAC;
   VDE-10A at 250 VAC

## SPECIFICATIONS

1. Maximum leakage current each
   line-to-ground @ 115VAC 60Hz: 0.20mA
   @ 250VAC 50Hz: 0.40mA
2. Hipot rating (one minute)
   line-to-ground: 2250VDC
   line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

## COMPONENTS

| PART NO. | Cx (uF) | Lg (uH) | L (mH) |
|---|---|---|---|
| **15DEEG3HA/(D)** | — | 6 | 0.12 |
| **15DEEG3HAX/(D)** | 0.1 | | |
| **15DEEG3HAX(2)/(D)** | 0.033 | | |
| **15DEEG3HAX(3)/(D)** | 0.047 | | |
| **15DEEG3E-R/(D)** | 0.1 | — | |
| **15DEEG3E-R(1)/(D1)** | 0.0047 | | |
| **15DEEG3E-R(2)/(D2)** | 0.033 | | |
| **15DEEG3E-R(3)/(D3)** | 0.047 | | |
| **15DEEG3E/(D)** | 0.1 | | |
| **15DEEG3E(1)/(D1)** | 0.0047 | | |
| **15DEEG3E(2)/(D2)** | 0.033 | | |
| **15DEEG3E(3)/(D3)** | 0.047 | | |
| **15DEEG3M(D)** | 0.1 | — | 0.15 |
| **15DEEG3M(D2)** | 0.033 | | |
| **15DEEG3M(D3)** | 0.047 | | |

15DEEG3E

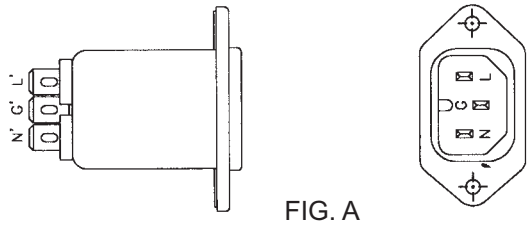



FIG. A

15DEEG3E (D)

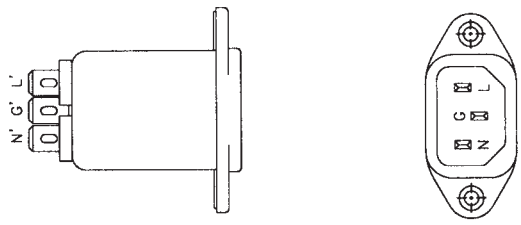



FIG. B

## ELECTRICAL SCHEMATIC

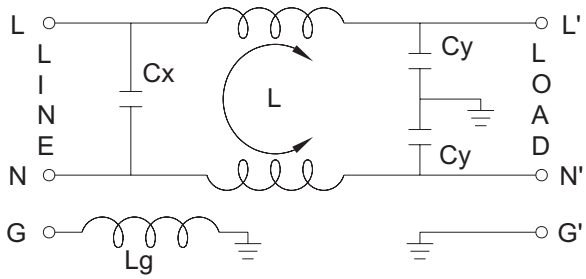
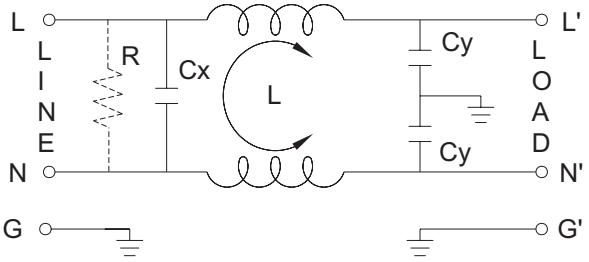



FIG. A: 15DEEG3HAX(X)/(DX)
Cy: 2200pF




15DEEG3E-R(X)/(DX)
FIG. B: 15DEEG3E(X)/(DX)
15DEEG3M(X)/(DX)

R: 1MΩ
Cy: 2200pF

## ♦15DE Series P/N System

**15DE Series has different combinations on socket and Cx, please see the following:**

A: SOCKET
1. EX. P/N: 15DEEG3E used socket (FIG. A).
2. EX. P/N: 15DEEG3E(D), P/N with suffix: "(D)" used socket (FIG. B).

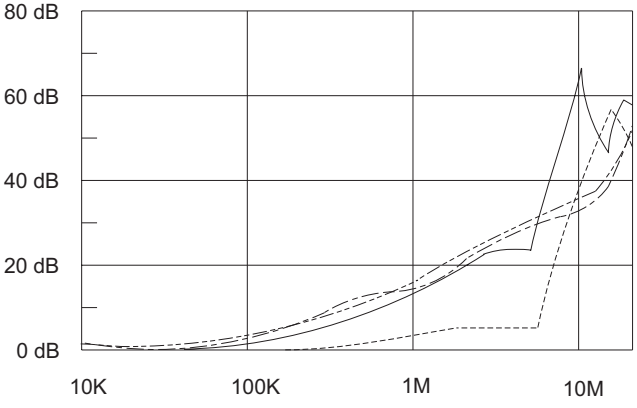
B. Cx
1. EX. P/N: 15DEEG3E Cx: 0.1uF
2. P/N with suffix "(1)" & "(D1)" Cx: 0.0047uF
3. P/N with suffix "(2)" & "(D2)" Cx: 0.033uF
4. P/N with suffix "(3)" & "(D3)" Cx: 0.047uF

## MINIMUM INSERTION LOSS IN dB

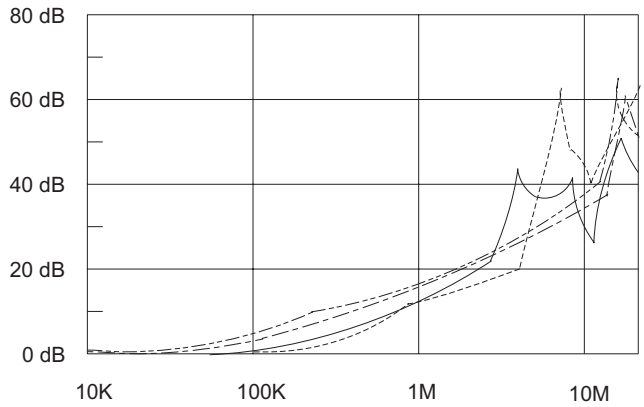
| COMMON MODE (L-G) IN 50 OHM SYSTEM | | | | | | | | DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NO. | FREQUENCY-MHz | | | | | | | PART NO. | FREQUENCY-MHz | | | | | | |
| | .10 | .15 | .50 | 1.0 | 5.0 | 10 | 30 | | .10 | .15 | .50 | 1.0 | 5.0 | 10 | 30 |
| 15DEEG3E(D)/-R | 1 | 2 | 8 | 10 | 20 | 25 | 40 | 15DEEG3E(D)/-R | 1 | 2 | 10 | 15 | 25 | 25 | 40 |
| 15DEEG3E(D1)/-R | | 0 | 5 | 10 | 20 | 25 | 40 | 15DEEG3E(D1)/-R | | 0 | 0 | 1 | 3 | 30 | 40 |
| 15DEEG3E(D2)/-R | 1 | 2 | 8 | 10 | 20 | 25 | 40 | 15DEEG3E(D2)/-R | 0 | 1 | 5 | 8 | 20 | 30 | 40 |
| 15DEEG3E(D3)/-R | 1 | 2 | 8 | 10 | 20 | 25 | 40 | 15DEEG3E(D3)/-R | 0 | 1 | 5 | 10 | 20 | 30 | 40 |
| 15DEEG3HAX(D) | 1 | 3 | 8 | 10 | 20 | 25 | 40 | 15DEEG3HAX(D) | 1 | 4 | 10 | 20 | 15 | 20 | 25 |
| 15DEEG3HAX(D2) | 1 | 3 | 8 | 10 | 20 | 25 | 40 | 15DEEG3HAX(D2) | | 0 | 4 | 10 | 15 | 25 | 35 |
| 15DEEG3HAX(D3) | 1 | 3 | 8 | 10 | 20 | 25 | 40 | 15DEEG3HAX(D3) | 0 | 1 | 7 | 15 | 15 | 20 | 35 |
| 15DEEG3M(D) | 1 | 2 | 7 | 10 | 20 | 25 | 40 | 15DEEG3M(D) | 1 | 4 | 10 | 10 | 20 | 20 | 35 |
| 15DEEG3M(D2) | | 2 | 6 | 10 | 20 | 25 | 35 | 15DEEG3M(D2) | | 0 | 5 | 8 | 25 | 20 | 35 |
| 15DEEG3M(D3) | | 1 | 6 | 10 | 20 | 25 | 35 | 15DEEG3M(D3) | | 1 | 8 | 10 | 20 | 25 | 35 |
| 15DEEG3HA(D) | | 1 | 5 | 10 | 20 | 28 | 35 | 15DEEG3HA(D) | | | | | 1 | 8 | 30 |

## INSERTION LOSS (TYPICAL)

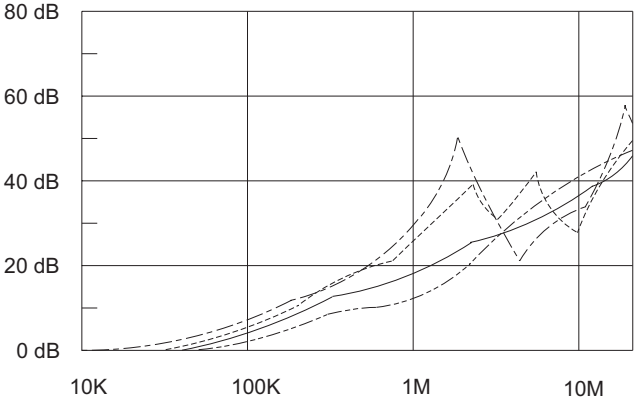
15DEEG3E(D1) ------ COMMON MODE ------ DIFF. MODE
15DEEG3E(D3) - - - - COMMON MODE ——— DIFF. MODE



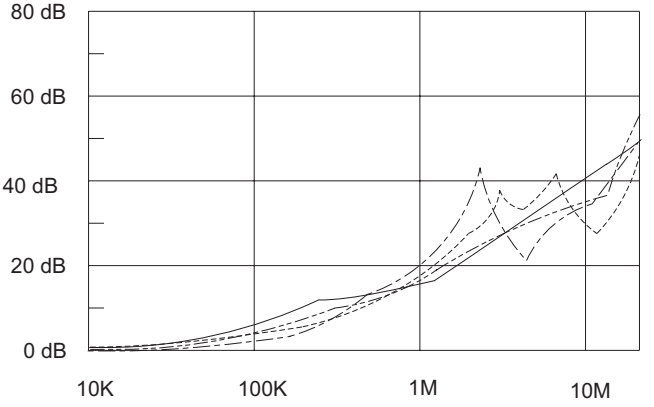

15DEEG3E(D2) ------ COMMON MODE ------ DIFF. MODE
15DEEG3M(D2) - - - - COMMON MODE ——— DIFF. MODE

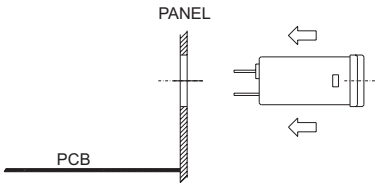



15DEEG3M(D) ------ COMMON MODE ------ DIFF. MODE
15DEEG3HAX(D) - - - - COMMON MODE ——— DIFF. MODE




15DEEG3M(D3) ------ COMMON MODE ------ DIFF. MODE
15DEEG3HAX(D3) - - - - COMMON MODE ——— DIFF. MODE



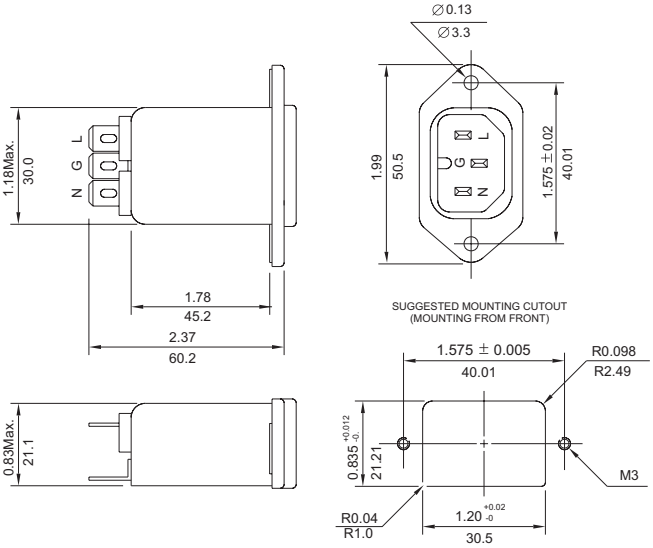



ASSEMBLY FROM FRONT

## MECHANICAL CONSTRUCTION

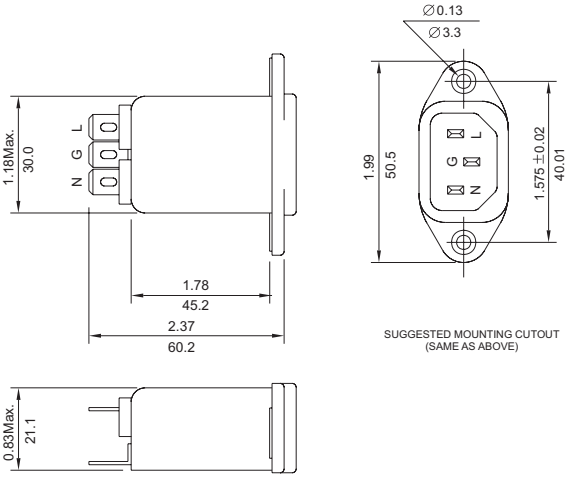


EG3HA, EG3HAX/(X)
EG3E-R/(X), EG3E/(X)



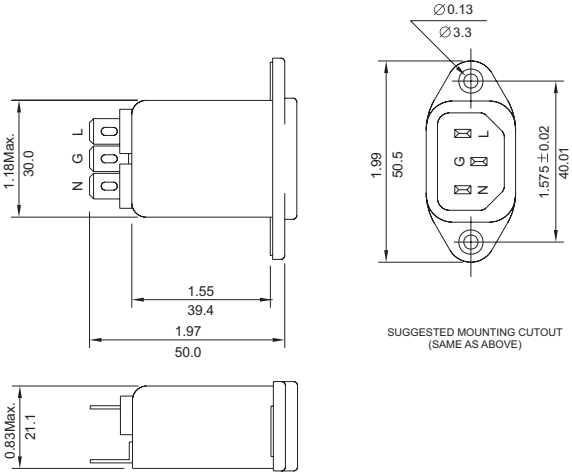



EG3HA(D), EG3HAX(D)
EG3E(D), EG3E-R(D)






EG3M(D)




UNIT: INCH / mm

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