

**tyco**

*Electronics*

## EJ Series

Enhanced Performance  
Compact RFI Filter  
IEC Connector Package



**corcom**

**General Information / Allgemeine Informationen**

- Next generation of power inlet filters
  - RoHS compliant
  - Enhanced performance to meet the needs for more attenuation
  - Extended metal flange around the socket for improved high frequency EMI shielding
  - Snap in or flange mounted version for different applications
  - Compact dimensions
  - Easy-to-install design
  - Different terminal types (FASTON, PCB, wire)
  - 20 A version for keeping up with the demand for higher current equipment
  - IEC 320/C14 inlet for 1-15 A versions
  - IEC 320/C20 inlet for 20 A version
  - Medical version (EJH) in compliance with UL/IEC leakage requirements for medical and dental equipment
- *Neueste Generation von Netz-eingangsfiltern*
  - *RoHS konform*
  - *Höhere Dämpfungseigenschaften durch verbesserte Bauteile*
  - *Verbesserte HF-Schirmung durch Sockel mit erweitertem Metall Flansch*
  - *Snap In oder Schraubmontage je nach Anforderung*
  - *Kompakte Abmessungen*
  - *Einfache Montage*
  - *Verschiedene Anschlussvarianten (Flachstecker; PCB; Kabel)*
  - *20 A Version für Geräte mit höherer Leistung*
  - *1-15 A Versionen mit IEC 320/C14 Stecker*
  - *20 A Version mit IEC 320/C20 Stecker*
  - *Medizinische Ausführungen entsprechen den UL/IEC-Vorschriften bzgl. Ableitstrom für medizinische und zahnmedizinische Geräte*



**Configurations / Konfigurationen**

**EEJ:**

flange mounted version; mechanically equivalent to the EEA/EEB series.

**EJS:**

snap-in mounted version; mechanically equivalent to the EAS/EBS series.

**EJH:**

flange mounted medical version; mechanically equivalent to the EAH/EBH series.

**EEJ:**

*Ausführung für Flanschmontage; gleiche Abmessungen wie EEA/EEB Serie.*

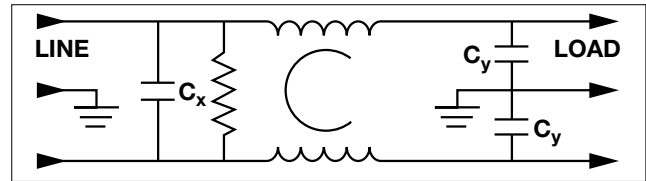
**EJS:**

*Ausführung für Snap-in Montage; gleiche Abmessungen wie EAS/EBS Serie.*

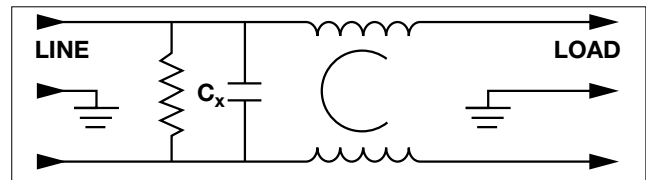
**EJH:**

*Medizinische Ausführung für Flanschmontage; gleiche Abmessungen wie EAH/EBH Serie*

**Electrical Schematic EEJ/EJS series**



**Electrical Schematic EJH series**



**Specifications / Elektrische Eigenschaften**

**Maximum leakage current, each line-to-ground**

@ 120 VAC 60 Hz: 22 mA (EEJ/EJS); 2  $\mu$ A (EJH)  
 @ 250 VAC 50 Hz: 38 mA (EEJ/EJS); 5  $\mu$ A (EJH)

**Hipot rating (one minute):**

line-to-ground 1500 VDC  
 line-to-line 1450 VDC

**Operating frequency:** 50/60 Hz

**Rated voltage (max):** 250 VAC

**Operating Ambient Temperature:**  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$

**Ordering Information / Bestellinformationen**

**EEJ/EJS series**

**20EEJ1**

**Terminal Type**

- 1** – FASTON 6,3 mm
- 2** – FASTON 6,3 mm, angle 90°
- P** – PCB mount
- 8** – wire

**Series**

- EEJ – Extended performance  
General purpose filter
- EJS – Extended performance  
General purpose filter  
SNAP IN version

**Current Rating**

(1, 3, 6, 15, 20 A)

**EJH series**

**20EJH1**

**Terminal Type**

- 1** – FASTON 6,3 mm
- 2** – FASTON 6,3 mm, angle 90°
- P** – PCB mount

**Series**

- EJH – Medical grade  
Extended performance  
General purpose filter

**Current Rating**

(1, 3, 6, 15, 20 A)

**EEJ-series**

Type	Order no.	Max. current UL/VDE	Inductance	Cx	Cy
1EEJ1	0-6609006-1	1 A/1 A	2 x 10,0 mH	0,1 µF	2 x 3,0 nF
1EEJ2	0-6609006-2	1 A/1 A	2 x 10,0 mH	0,1 µF	2 x 3,0 nF
1EEJP	0-6609006-3	1 A/1 A	2 x 10,0 mH	0,1 µF	2 x 3,0 nF
3EEJ1	0-6609006-5	3 A/3 A	2 x 1,5 mH	0,1 µF	2 x 3,0 nF
3EEJ2	0-6609006-6	3 A/3 A	2 x 1,5 mH	0,1 µF	2 x 3,0 nF
3EEJP	0-6609006-7	3 A/3 A	2 x 1,5 mH	0,1 µF	2 x 3,0 nF
6EEJ1	0-6609006-9	6 A/6 A	2 x 0,465 mH	0,1 µF	2 x 3,0 nF
6EEJ2	1-6609006-0	6 A/6 A	2 x 0,465 mH	0,1 µF	2 x 3,0 nF
6EEJP	1-6609006-1	6 A/6 A	2 x 0,465 mH	0,1 µF	2 x 3,0 nF

max. leakage current, each line-to-ground: 0,38 mA

**EJS-series**

Type	Order no.	Max. current UL/VDE	Inductance	Cx	Cy
1EJS1	0-6609006-4	1 A/ 1 A	2 x 10,0 mH	0,1 µF	2 x 3,0 nF
3EJS1	0-6609006-8	3 A/ 3 A	2 x 1,5 mH	0,1 µF	2 x 3,0 nF
6EJS1	1-6609006-2	6 A/ 6 A	2 x 0,465 mH	0,1 µF	2 x 3,0 nF
10EJS1	1-6609006-6	10 A/10 A	2 x 0,35 mH	0,1 µF	2 x 3,0 nF

max. leakage current, each line-to-ground: 0,38 mA

**EJH-series**

Type	Order no.	Max. current UL/VDE	Inductance	Cx	Cy
1EJH1	0-6609008-1	1 A/1 A	2 x 10,0 mH	0,1 µF	–
1EJH2	0-6609008-6	1 A/1 A	2 x 10,0 mH	0,1 µF	–
1EJHP	0-6609008-7	1 A/1 A	2 x 10,0 mH	0,1 µF	–
3EJH1	0-6609008-2	3 A/3 A	2 x 1,5 mH	0,1 µF	–
3EJH2	0-6609008-8	3 A/3 A	2 x 1,5 mH	0,1 µF	–
3EJHP	0-6609008-9	3 A/3 A	2 x 1,5 mH	0,1 µF	–
6EJH1	0-6609008-3	6 A/6 A	2 x 0,465 mH	0,1 µF	–
6EJH2	1-6609008-0	6 A/6 A	2 x 0,465 mH	0,1 µF	–
6EJHP	1-6609008-1	6 A/6 A	2 x 0,465 mH	0,1 µF	–

max. leakage current: 5 µA

Type	Order no.	Max. current UL/VDE	Inductance	Cx	Cy
10EEJ1	1-6609006-3	10 A/10 A	2 x 0,35 mH	0,1 µF	2 x 3,0 nF
10EEJ2	1-6609006-4	10 A/10 A	2 x 0,35 mH	0,1 µF	2 x 3,0 nF
10EEJP	1-6609006-5	10 A/10 A	2 x 0,35 mH	0,1 µF	2 x 3,0 nF
15EEJ1	1-6609006-7	15 A/10 A	2 x 0,086 mH	0,1 µF	2 x 3,0 nF
15EEJ2	1-6609006-9	15 A/10 A	2 x 0,086 mH	0,1 µF	2 x 3,0 nF
15EEJP	2-6609006-0	15 A/10 A	2 x 0,086 mH	0,1 µF	2 x 3,0 nF
20EEJ1	0-6609007-3	20 A/16 A	2 x 0,306 mH	0,1 µF	2 x 2,8 nF
20EEJ8	0-6609007-6	20 A/16 A	2 x 0,306 mH	0,1 µF	2 x 2,8 nF

Type	Order no.	Max. current UL/VDE	Inductance	Cx	Cy
15EJS1	1-6609006-8	15 A/10 A	2 x 0,086 mH	0,1 µF	2 x 3,0 nF
20EJS1	0-6609007-5	20 A/16 A	2 x 0,306 mH	0,1 µF	2 x 2,8 nF
20EJS8	0-6609007-7	20 A/16 A	2 x 0,306 mH	0,1 µF	2 x 2,8 nF

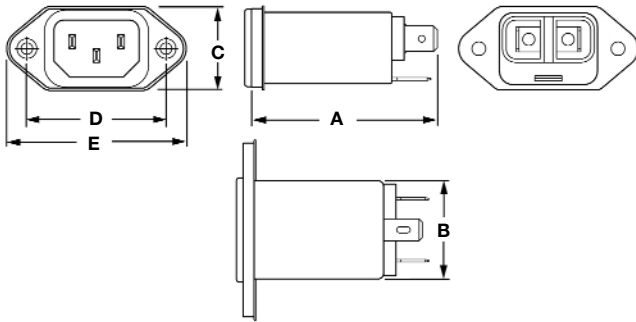
Type	Order no.	Max. current UL/VDE	Inductance	Cx	Cy
10EJH1	0-6609008-4	10 A/10 A	2 x 0,35 mH	0,1 µF	–
10EJH2	1-6609008-2	10 A/10 A	2 x 0,35 mH	0,1 µF	–
10EJHP	1-6609008-3	10 A/10 A	2 x 0,35 mH	0,1 µF	–
15EJH1	0-6609008-5	15 A/10 A	2 x 0,086 mH	0,1 µF	–
15EJH2	1-6609008-4	15 A/10 A	2 x 0,086 mH	0,1 µF	–
15EJHP	1-6609008-5	15 A/10 A	2 x 0,086 mH	0,1 µF	–
20EJH1	0-6609009-4	20 A/16 A	2 x 0,306 mH	0,1 µF	–
20EJH8	0-6609009-5	20 A/16 A	2 x 0,306 mH	0,1 µF	–

Additional terminal configurations for all series available upon request.

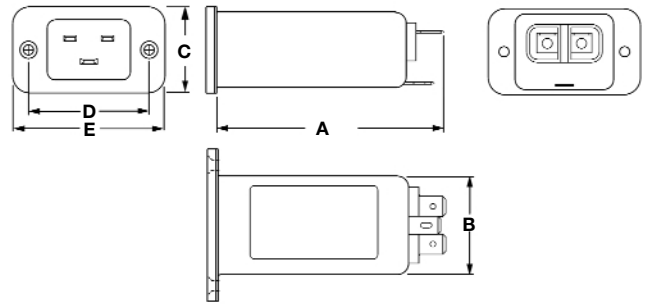
Weitere Anschlussoptionen auf Anfrage erhältlich.

**Case Styles for EEJ/EJH-Series / Gehäuseformen EEJ/EJH Serie**

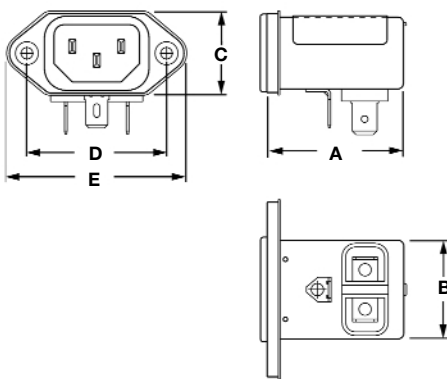
**EEJ1/EJH1 (1 – 15 amp version)**



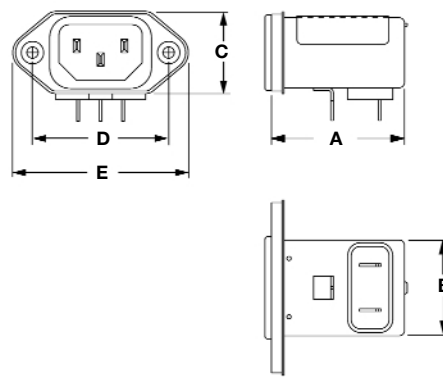
**20EEJ1/EJH1**



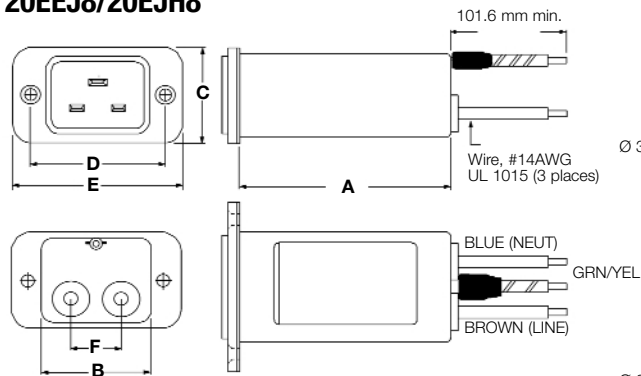
**EEJ2/EJH2 (1 – 15 amp version)**



**EEJP/EJHP (1 – 15 amp version)**



**20EEJ8/20EJH8**

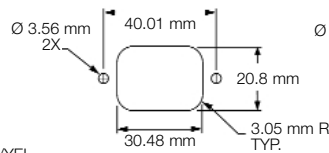


**Recommended panel cutouts**

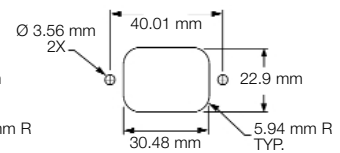
**1 to 15 A EEJ/EJH – all terminal types**

**Panel thickness 0.78 mm – 1.19 mm**

**Front mount only applicable to type 1 terminals & wires**

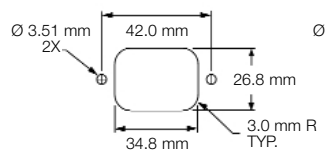


**Panel cutout (front mount)**  
Tolerance ±0.13 mm

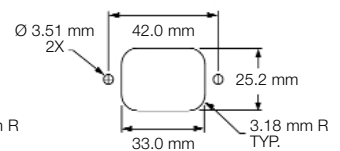


**Panel cutout (back mount)**  
Tolerance ±0.13 mm

**20EEJ/EJH**



**Panel cutout (front mount)**  
Tolerance ±0.13 mm



**Panel cutout (back mount)**  
Tolerance ±0.13 mm

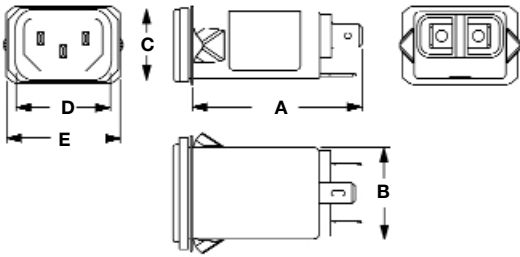
**Case dimensions / Gehäuseabmessungen**

All dimensions in mm

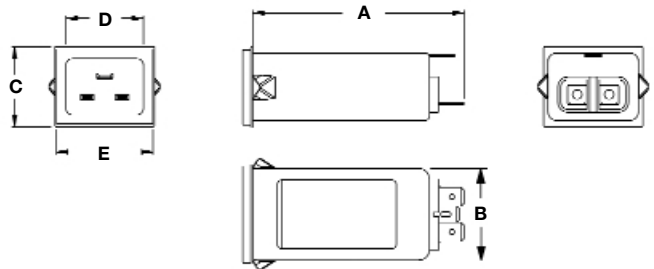
Part No.	A (max)	B (max)	C (max)	D +/- .38	E (max)	F (ref.)
1EEJ1; 3EEJ1; 6EEJ1; 10EEJ1; 15EEJ1 1EJH1; 3EJH1; 6EJH1; 10EJH1; 15EJH1	54.61	28.70	24.38	40.00	51.76	–
20EEJ1; 20EJH1	79.38	34.29	29.99	42.01	53.00	–
1EEJ2; 3EEJ2; 6EEJ2; 10EEJ2 1EJH2; 3EJH2; 6EJH2; 10EJH2	39.12	28.70	24.38	40.00	51.76	–
15EEJ2; 15EJH2	45.47	28.70	24.38	40.00	51.76	–
1EEJP; 3EEJP; 6EEJP; 10EEJP 1EJHP; 3EJHP; 6EJHP; 10EJHP	39.12	28.70	24.38	40.00	51.76	–
15EEJP; 15EJHP	45.47	28.70	24.38	40.00	51.76	–
20EEJ8; 20EJH8	67.31	34.29	29.99	42.01	53.00	15.75

**Case Styles for EJS-Series / Gehäuseformen EJS Serie**

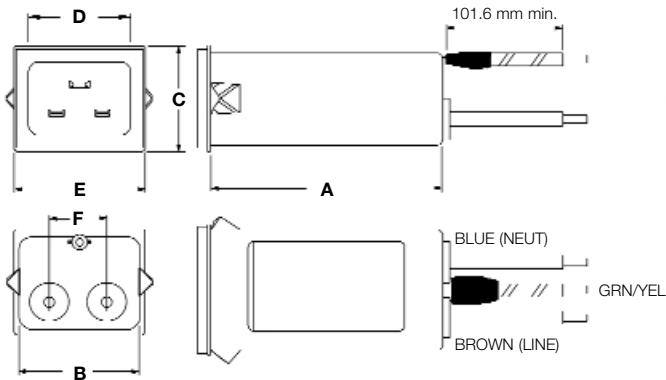
**EJS (1 – 15 amp version)**



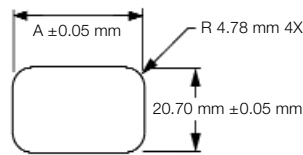
**20EJS1**



**20EJS8**



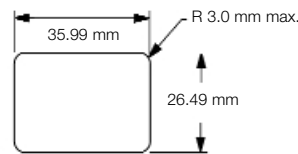
**Recommended Panel Cutout  
1 to 15 A – all terminal types**



Panel thickness	A Dim. ±0.05 mm
0.79 – 1.32 mm	32.00 mm
1.17 – 1.73 mm	34.29 mm

Panel cutout (front mount)

**20EJS**



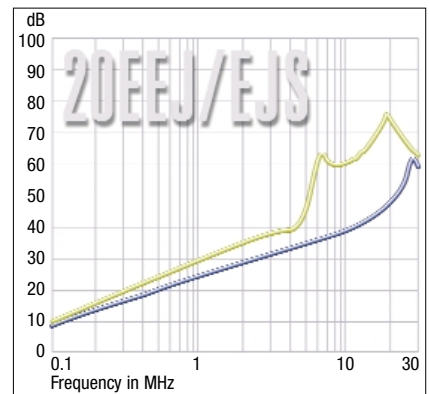
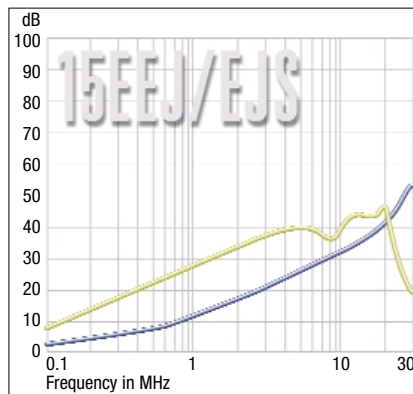
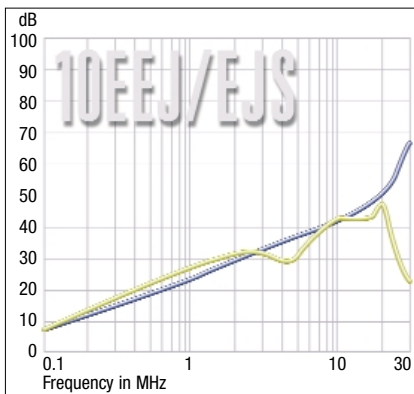
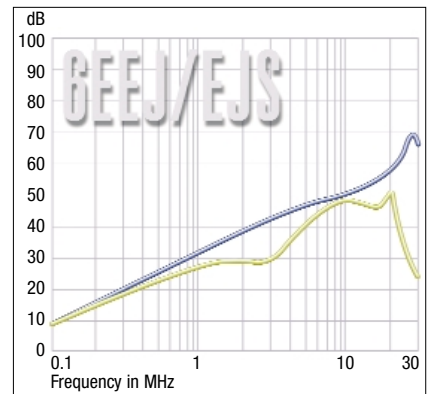
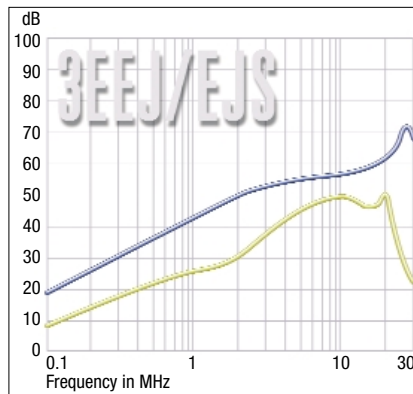
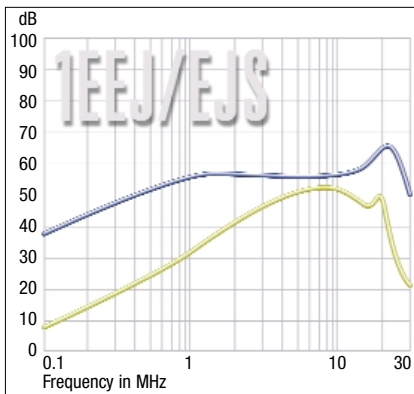
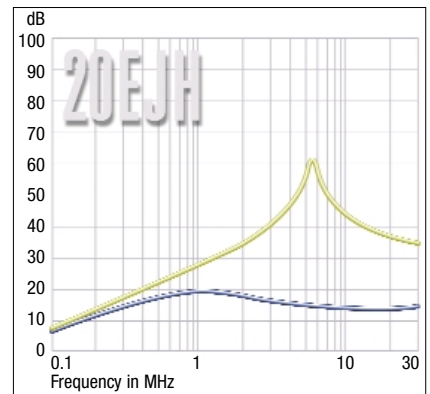
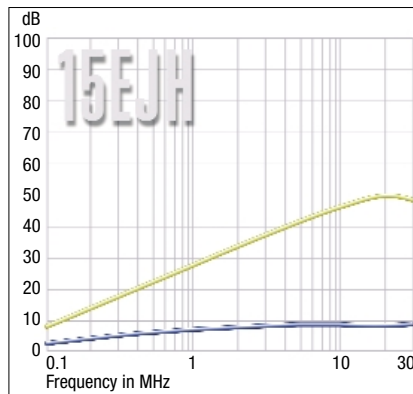
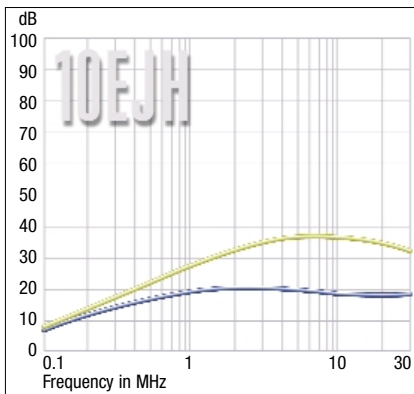
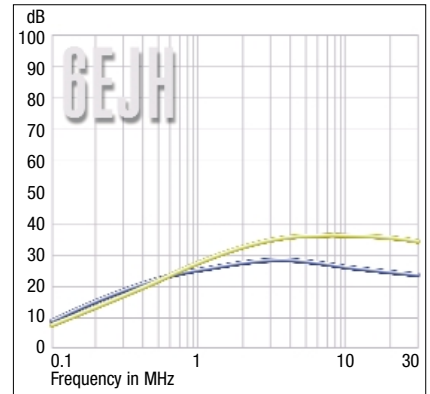
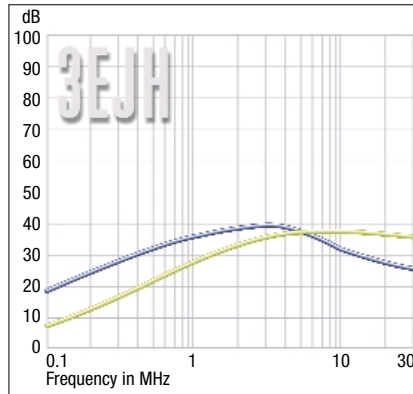
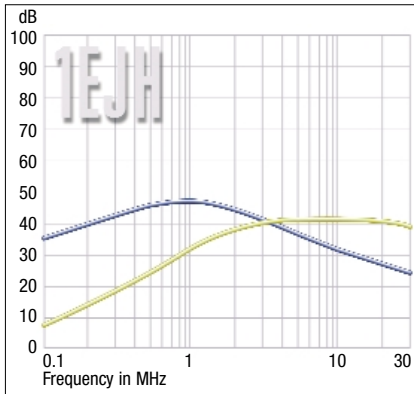
Panel cutout (front mount)  
Tolerance ±0.13 mm

**Case dimensions / Gehäuseabmessungen**

All dimensions in mm

Part No.	A (max)	B (max)	C (max)	D +/- .38	E (max)	F (ref.)
1EJS1; 3EJS1; 6EJS1; 10EJS1; 15EJS1	55.88	27.94	24.38	30.10	34.21	–
20EJS1	79.38	34.29	29.99	36.07	37.08	–
20EJS8	66.80	34.29	29.97	36.07	37.08	15.84

**Typ. Insertion Loss / Beispiel typischer Einfügungsdämpfung**



— sym.  
— asym.

Measuring method: closed 50 Ω system

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**Germany** – Langen

**Tyco Electronics AMP GmbH**  
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**Germany** – Nieferrn

**Tyco Electronics pretema GmbH & Co. KG**  
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**Germany** – Ottobrunn

**Tyco Electronics Raychem GmbH**  
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**Great Britain** –

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Fax: +44-208-954-6234

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+44-208-420-8343  
Fax: +44-208-420-8081

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Fax: +30-210-9370-655

**Hungary** – Budapest

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Fax: +36-1-289-1010

**Product Information Center:**

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Fax: +36-1-289-1017

**Ireland** – Dublin

Phone: +353-1-820-3000  
Fax: +353-1-820-9790

**Israel** – Yokneam

Phone: +972-4-959-0508  
Fax: +972-4-959-0506

**Italy** – Collegno (Torino)

Phone: +39-011-4012-111  
Fax: +39-011-4031116

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Fax: +39-011-40287360

**Lithuania** – Vilnius

Phone: +370-5-2131-402  
Fax: +370-5-2131-403

**Netherlands** – 's-Hertogenbosch

Phone: +31-73-6246-246  
Fax: +31-73-6212-365

**Product Information Center:**

Phone: +31-73-6246-999  
Fax: +31-73-6246-998

**Norway** – Nesbru

Phone: +47-66-77-88-86  
Fax: +47-66-77-88-55

**Poland** – Warsaw

Phone: +48-22-4576-700  
Fax: +48-22-4576-720

**Product Information Center:**

Phone: +48-22-4576-704  
Fax: +48-22-4576-720

**Romania** – Bucharest

Phone: +40-21-311-3479 + 3596  
Fax: +40-21-312-0574

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Fax: +7-095-926-55-05

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Fax: +386-1561-3240

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Fax: +2741-581-0440

**Spain** – Barcelona

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Fax: +34-93-201-7879

**Sweden** – Upplands Väsby

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Fax: +46-8-50-72-50-01

**Switzerland** – Steinach

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Fax: +41-71-447-0444

**Turkey** – Istanbul

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+90-212-282-5130/5430  
Fax: +90-212-281-8184

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Fax: +380-44-206-2264