

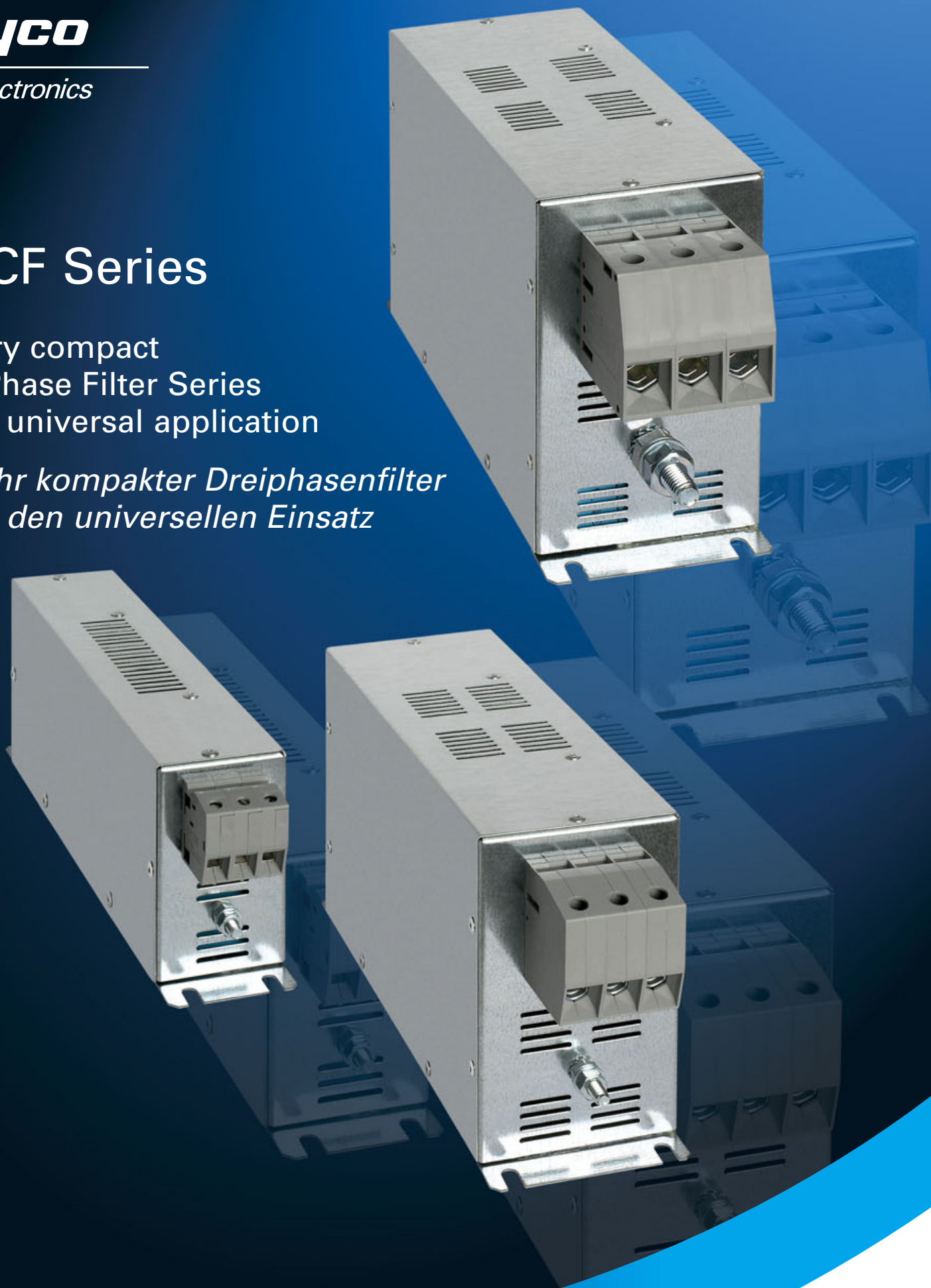
**tyco**

Electronics

## BCF Series

Very compact  
3-Phase Filter Series  
for universal application

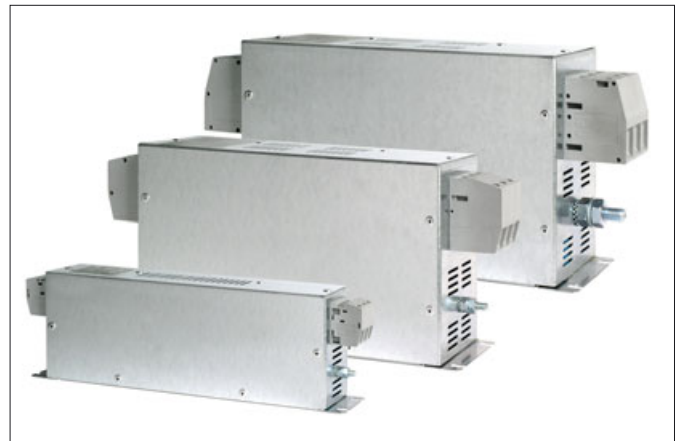
*Sehr kompakter Dreiphasenfilter  
für den universellen Einsatz*



**corcom**

**General Information / Allgemeine Informationen**

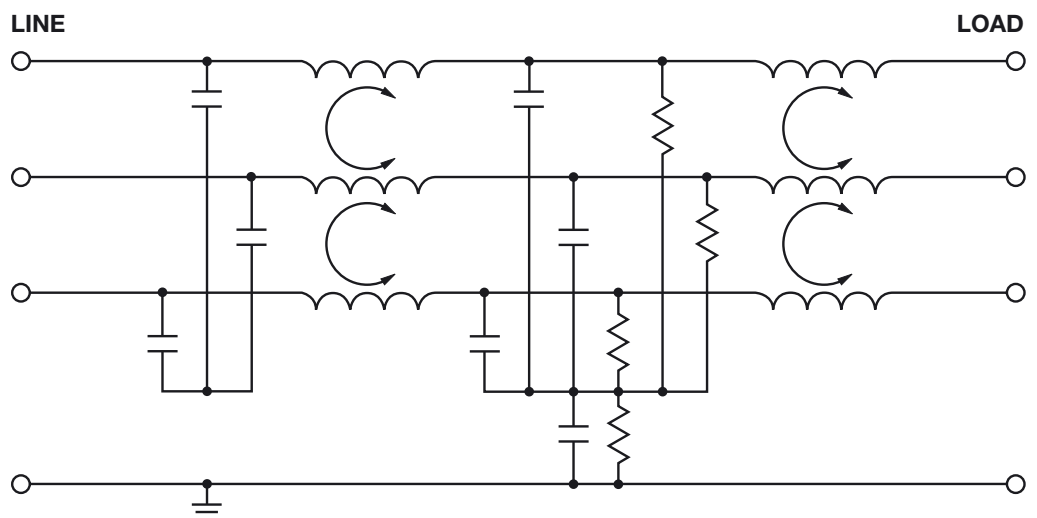
- Very compact bookform filter
  - Low weight design
  - Insulated, high quality safety terminals for in- and output
  - For current rating up to 180 A
  - Cost effective design
  - Ideal for all kinds of industrial 3-phase applications requiring very high attenuation in the frequency range between 100 KHz and 30 MHz
  - Very high common and differential mode performance over the whole frequency range
- *Sehr kompakter Buchform-Filter*
  - *Geringes Gewicht*
  - *Isolierte, hoch qualitative Sicherheitsklemmen auf der Ein- und Ausgangsseite*
  - *Für Stromstärken bis zu 180 A*
  - *Kostenoptimiertes Design*
  - *Hervorragend geeignet für alle industriellen 3-Phasen-Anwendungen, die eine sehr hohe Einfügungsdämpfung im Frequenzbereich zwischen 100 KHz und 30 MHz benötigen*
  - *Sehr hohe asymmetrische und symmetrische Dämpfung über den gesamten Frequenzbereich*



RoHS  
Ready



**Electrical Schematic / Elektrischer Schaltplan**



## Electrical Specifications / Elektrische Eigenschaften

**Maximum leakage current / Maximaler Ableitstrom:**

@ 400 VAC 50 Hz: 30 mA under normal circumstances  
(if 2 phases are interrupted, this leakage may rise to a significant higher level)

**Hipot rating (one minute) / Prüfspannung (1 Minute):**

line-to-ground 1850 VDC  
line-to-line 1850 VDC

**Operating frequency / Nennfrequenz:**

DC to 60 Hz

**Rated voltage (max.) / Nennspannung (max.):**

480 VAC

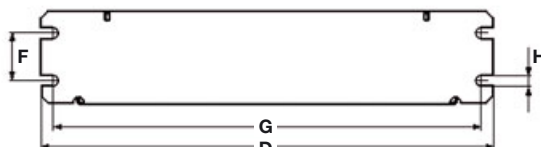
## Ordering Information / Bestellinformationen



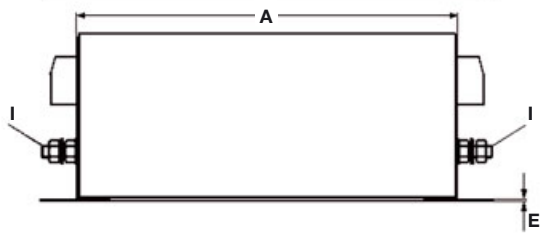
Type	Order no.	Max. Current 50 °C / 40 °C	Inductance L	C <sub>x</sub>	C <sub>y</sub>
7BCF10	1609989-1	7 A / 8 A	2,44 mH	3,3 µF	2,0 µF
16BCF10	1609989-2	16 A / 18 A	2,32 mH	3,3 µF	2,0 µF
30BCF10	1609989-3	30 A / 33 A	1,61 mH	5,0 µF	2,1 µF
42BCF10	1609989-4	42 A / 46 A	1,14 mH	6,7 µF	2,2 µF
55BCF10	1609989-5	55 A / 61 A	1,80 mH	6,7 µF	2,2 µF
75BCF10	1609989-6	75 A / 83 A	1,08 mH	6,7 µF	2,2 µF
100BCF10	1609989-7	100 A / 110 A	0,82 mH	6,7 µF	2,2 µF
130BCF10	1609989-8	130 A / 143 A	0,56 mH	6,7 µF	2,2 µF
180BCF10	1609989-9	180 A / 198 A	0,72 mH	6,7 µF	2,2 µF

**Mechanical Data / Mechanische Eigenschaften**

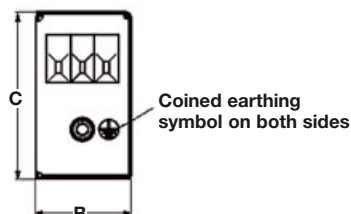
Bottom view



Side view



Front view



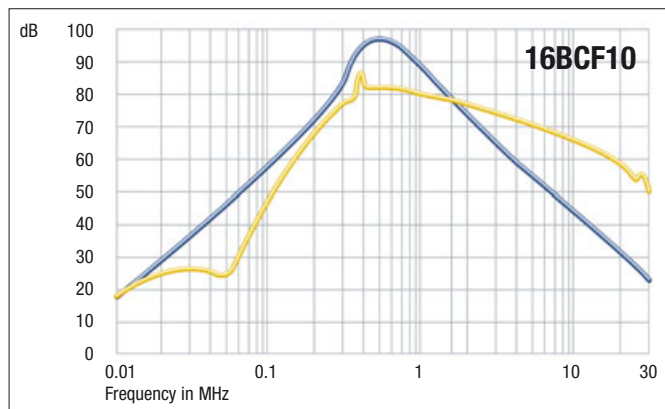
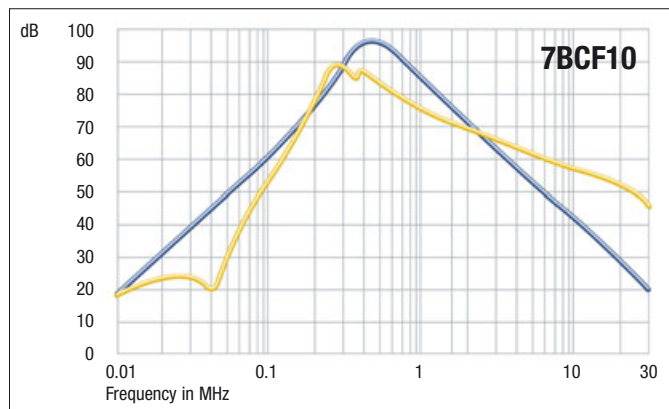
Top view



Type	A	B	C	D	E	F	G	H	GND (I)	Type of connection	Weight (kg)	Packing unit
7BCF10	160	40	70	190	0,8	20	180	4,5	M5	Terminal block 4 mm <sup>2</sup>	0,7	1
16BCF10	220	45	70	250	0,8	25	235	5,4	M5	Terminal block 4 mm <sup>2</sup>	1,1	1
30BCF10	240	50	85	270	0,8	30	255	5,4	M5	Terminal block 10 mm <sup>2</sup>	1,5	1
42BCF10	280	50	85	310	0,8	30	295	5,4	M6	Terminal block 10 mm <sup>2</sup>	1,7	1
55BCF10	220	85	90	250	1,0	60	235	5,4	M6	Terminal block 16 mm <sup>2</sup>	2,4	1
75BCF10	240	80	135	270	1,0	60	255	6,5	M6	Terminal block 25 mm <sup>2</sup>	3,2	1
100BCF10	240	90	150	270	1,0	65	255	6,5	M10	Terminal block 50 mm <sup>2</sup>	4,2	1
130BCF10	240	90	150	270	1,0	65	255	6,5	M10	Terminal block 50 mm <sup>2</sup>	4,4	1
180BCF10	350	120	170	380	1,0	102	365	6,5	M10	Terminal block 95 mm <sup>2</sup>	6,2	1

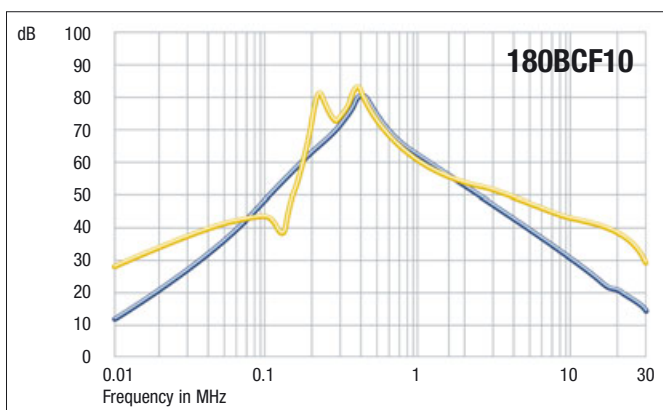
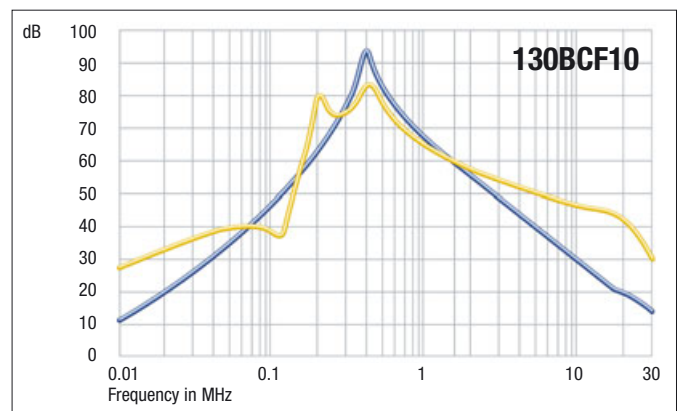
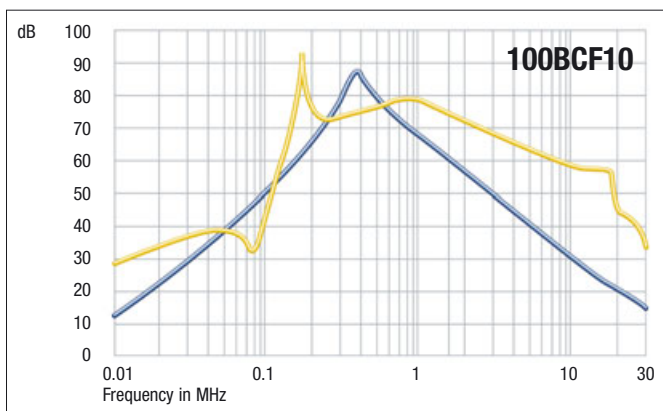
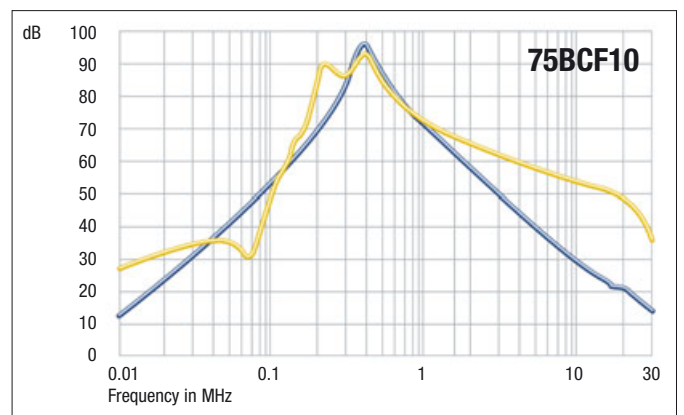
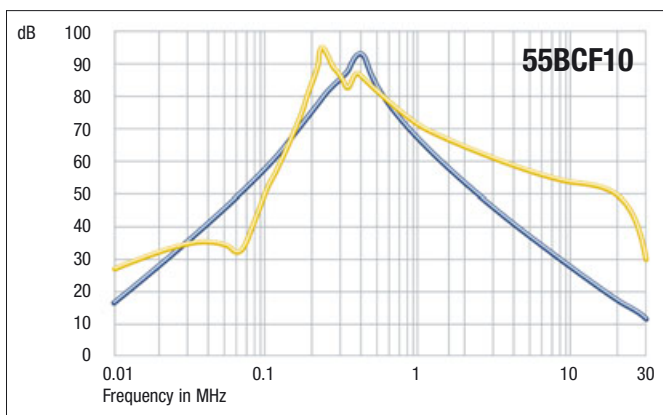
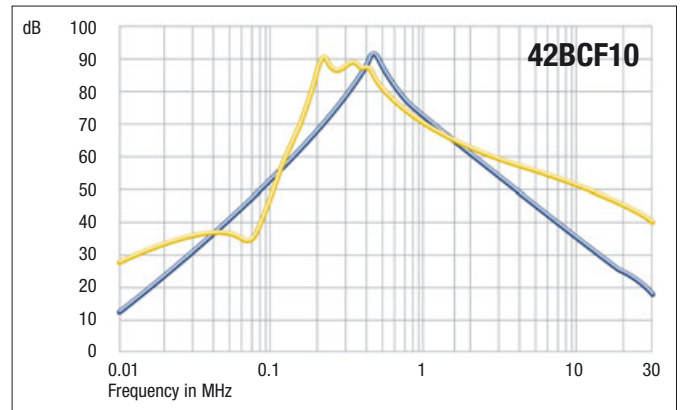
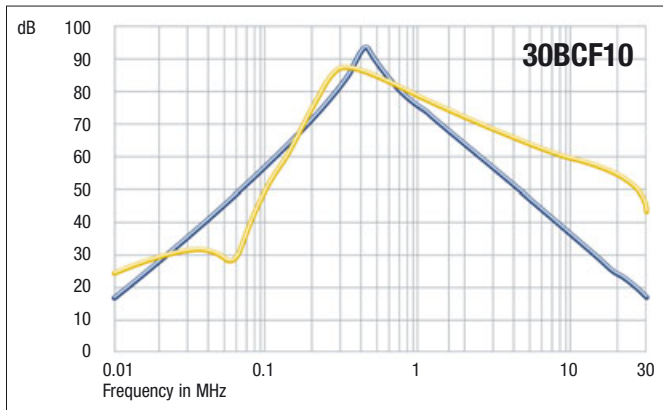
All dimensions in mm

**Typical Insertion Loss / Beispiel typischer Einfügungsdämpfung**



to be continued on next page/Fortsetzung auf folgender Seite

**Typical Insertion Loss / Beispiel typischer Einfügungsdämpfung**



— sym.  
— asym.

Measuring method: closed 50  $\Omega$  system