

**Richtkoppler / Directional Coupler**

**SM-T4**

**Anwendung / Application**

Neue Generation von SMD-Richtkoppler für den modernen Standard DOCSIS®3.1 und weitere Anwendungen bis 2,4 GHz:

*New generation of SMD-directional coupler for the up-to-date DOCSIS®3.1 standard and further RF application up to 2,4 GHz:*

- CATV
- Mobilfunk / Cellular
- Rundfunk / Broadcast
- Datennetze / Data networks

**Leistung:**

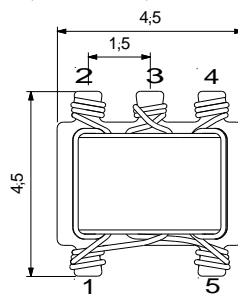
Power: **0,25 W**

**Betriebstemperaturbereich:**

Operating temperature range:  
**-40°C – +125°C**

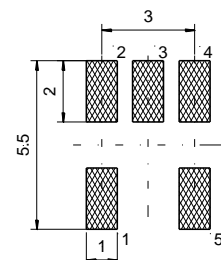


**max. Maß / max Size**  
**4,5mm x 4,5mm x 3,0mm**



**Lötflächen - Empfehlung**

Solder areas - Recommendation



Lötbar nach / solderable acc. to  
IPC/JEDEC J-STD-020-D  
max. 260°C, 10s

**Koppeldämpfung**  
*Coupling*  
[dB]

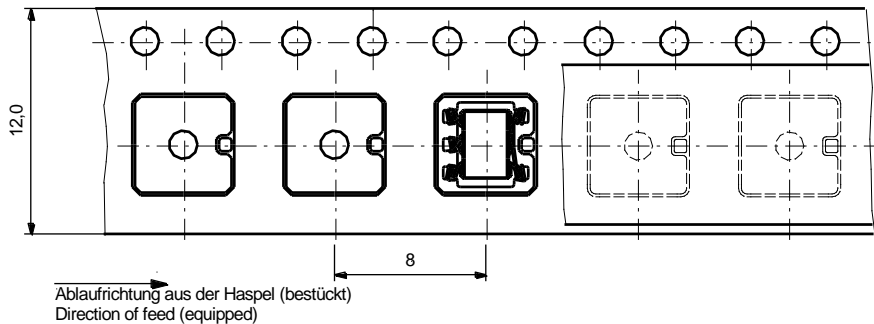
**Frequenz**  
*Frequency*

min. [MHz]    max. [MHz]

**Artikel Nr.**  
*Part No.*

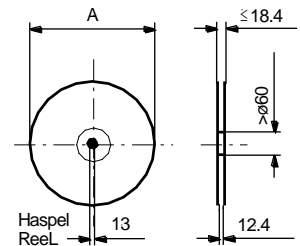
6,5	5	1500	00 5542 99
8,5	5	1500	00 5542 98
9,5	5	1500	00 5542 97
10	5	1500	00 5542 96
10,5	5	2400	00 5542 95
11,5	5	2400	00 5542 94
15	5	1500	00 5542 93
17,5	5	1500	00 5542 92
20	5	1500	00 5542 90

**Blisterverpackung / Blisterpack; VE / Unit = 2000 Stk./Rolle / Pcs./Reel**  
*(Vereinfachte Darstellung / simplified representation)*



Abblaufrichtung aus der Haspel (bestückt)  
Direction of feed (equipped)

Blisterpack entsprechend DIN EN 60286/3:2014 ausgelegt.  
Blisterpack according to DIN EN 60286/3:2014 designed.



**Lager- und Transportbedingungen (im Blistergurt) / Storage- and transport conditions (in blisterpack):**  
+10°C – +40°C, ≤ 70% rel. Luftfeuchtigkeit / rel. Humidity  
dunkel lagern und transportieren / store and transport in a dark place

Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.

**Richtkoppler SM-T4 / Directional Coupler SM-T4**

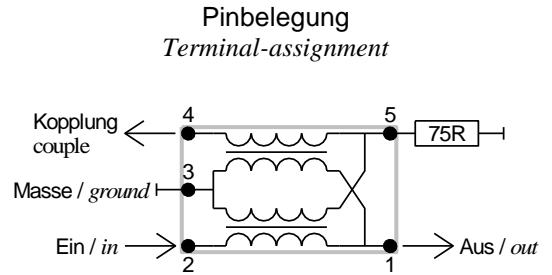
20dB, 5 – 1500 MHz, 75Ω / 50Ω

**00 5542 90**

**Elektrische Daten / electrical data:**

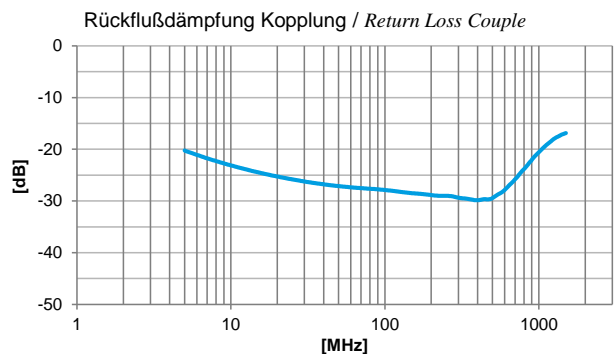
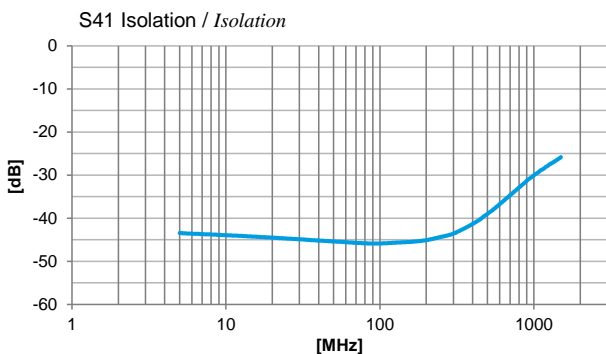
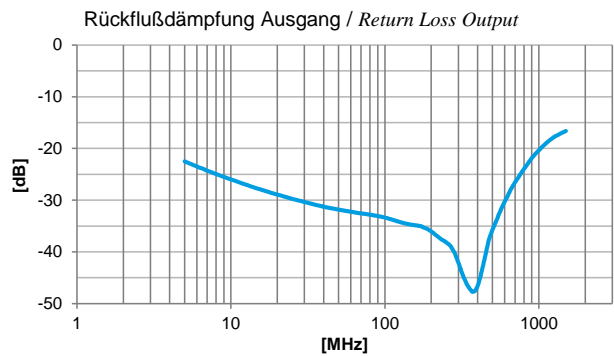
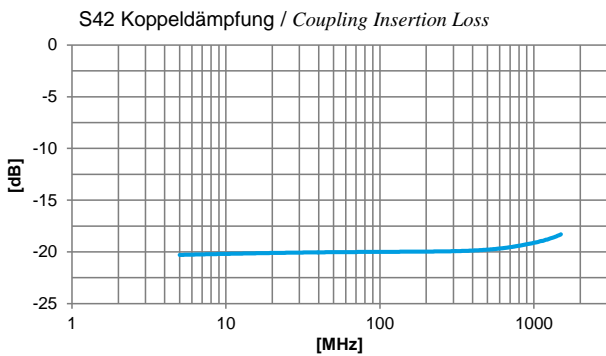
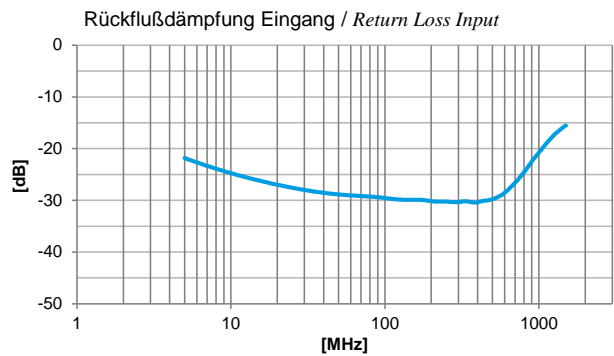
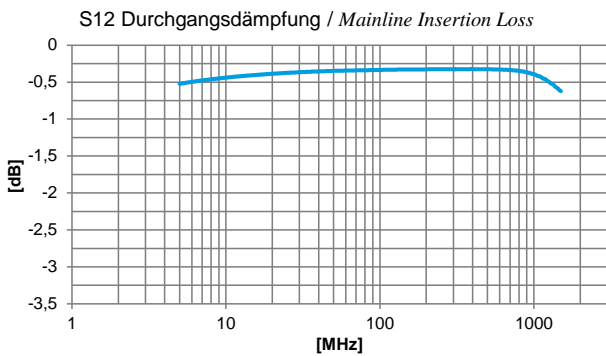
(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]			
	5	862	1218	1500
2 → 4	20,0 ±0,5	19,5 ±0,5	19,0 ±0,5	18,5 ±1,0
2 → 1	< 0,6	< 0,6	< 0,7	< 0,9



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.

**Richtkoppler SM-T4 / Directional Coupler SM-T4**

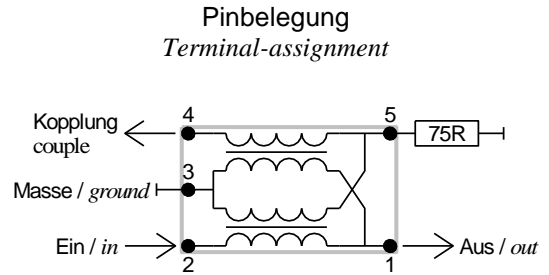
17,5dB, 5 – 1500 MHz, 75Ω / 50Ω

**00 5542 92**

**Elektrische Daten / electrical data:**

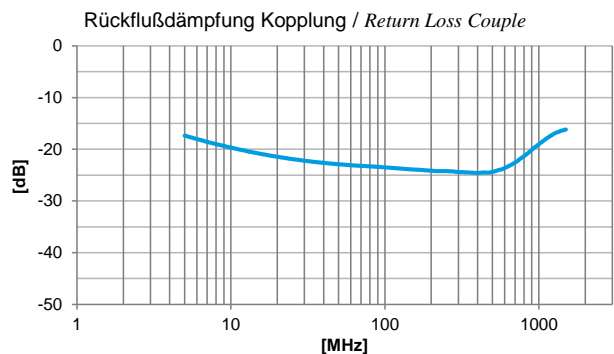
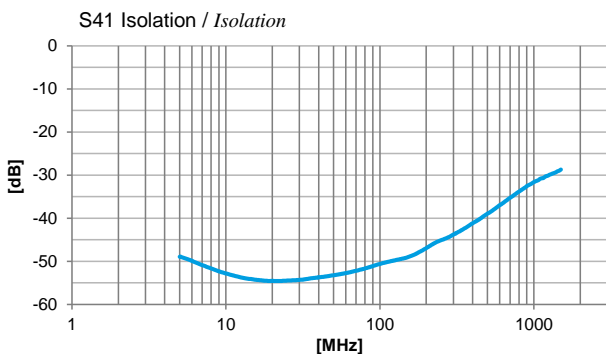
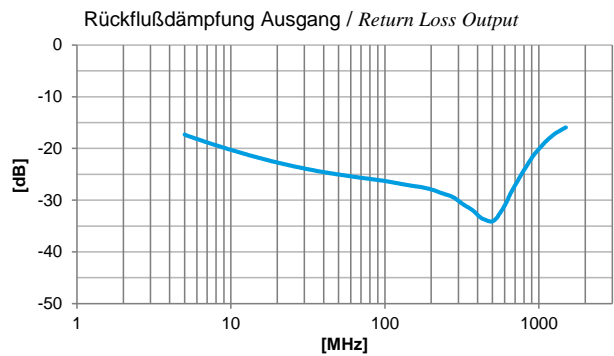
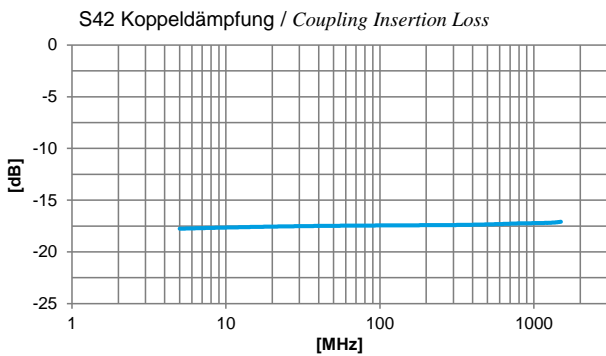
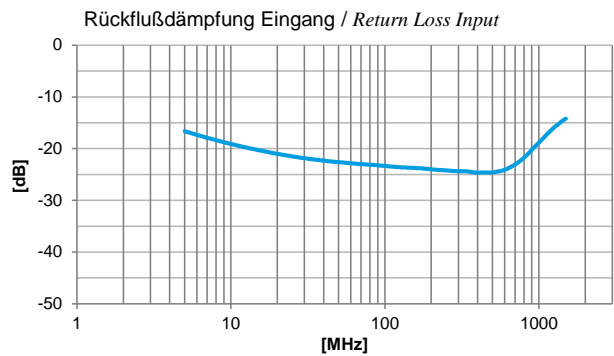
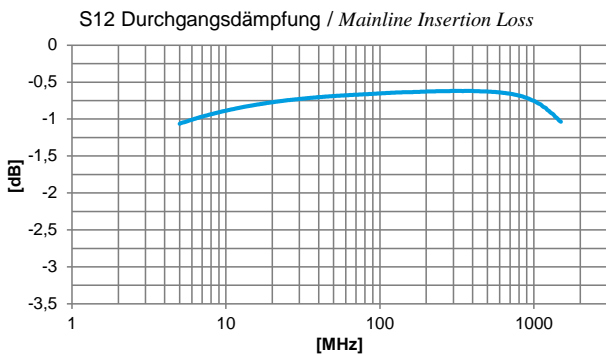
(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]			
	5	862	1218	1500
2 → 4	17,5 ±0,5	17,2 ±0,5	16,5 ±0,5	16,5 ±1,0
2 → 1	< 1,2	< 1,0	< 1,2	< 1,4



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.

**Richtkoppler SM-T4 / Directional Coupler SM-T4**

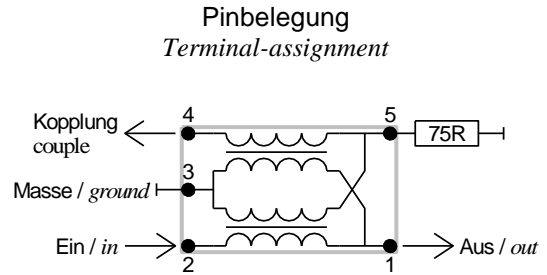
15dB, 5 – 1500 MHz, 75Ω / 50Ω

**00 5542 93**

**Elektrische Daten / electrical data:**

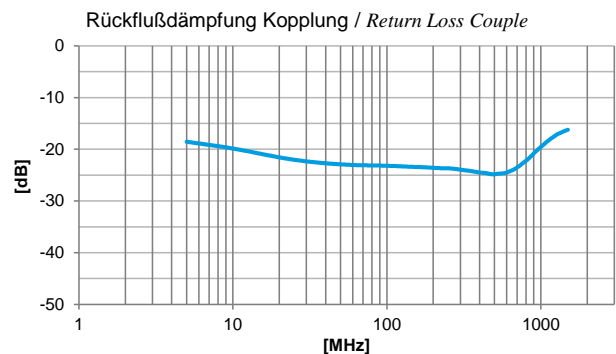
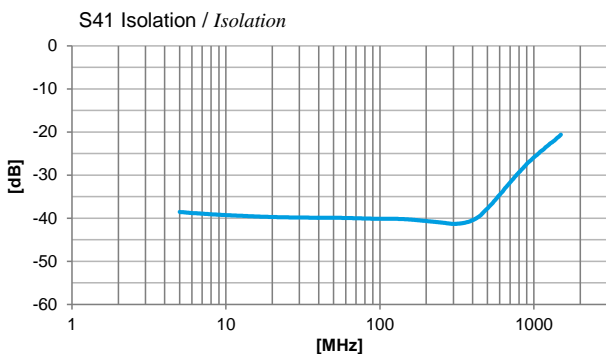
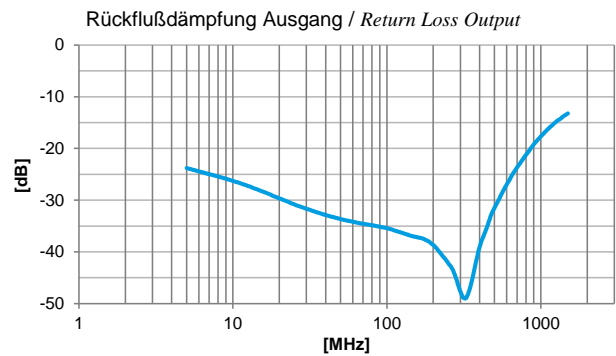
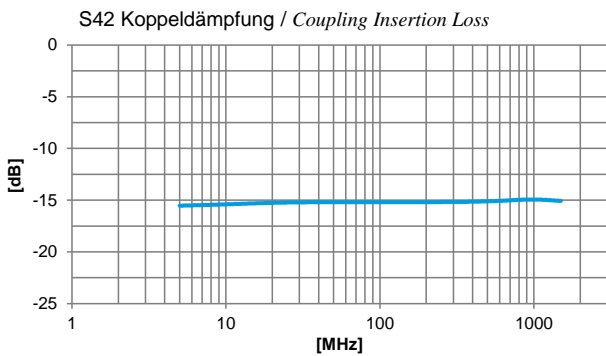
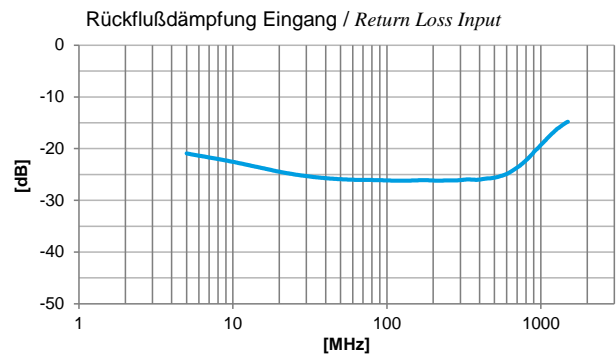
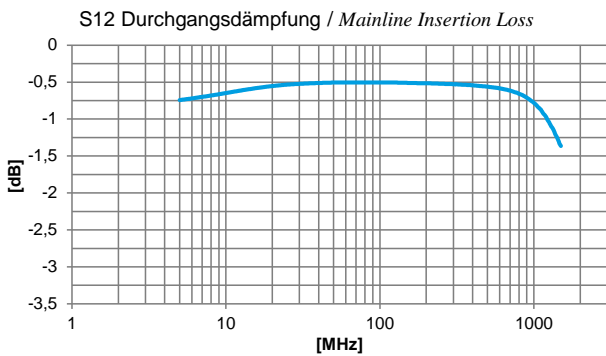
(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]			
	5	862	1218	1500
2 → 4	15,5 ±0,5	14,8 ±0,5	14,7 ±0,5	14,3 ±1,0
2 → 1	< 1,0	< 1,0	< 1,3	< 1,8



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.

**Richtkoppler SM-T4 / Directional Coupler SM-T4**

11,5dB, 5 – 2400 MHz, 75Ω / 50Ω

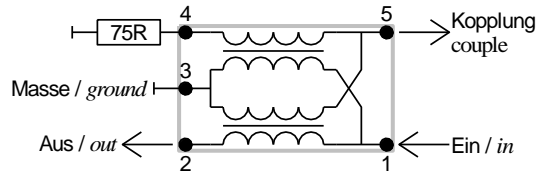
**00 5542 94**

**Elektrische Daten / electrical data:**

(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

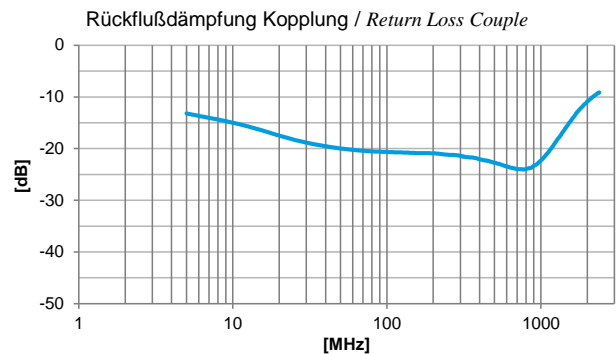
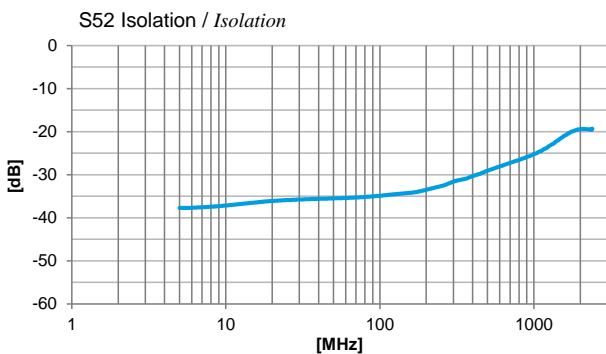
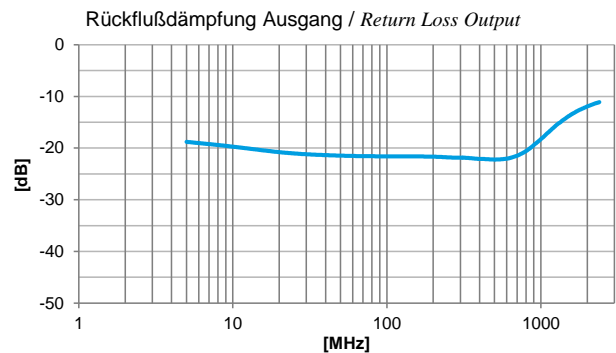
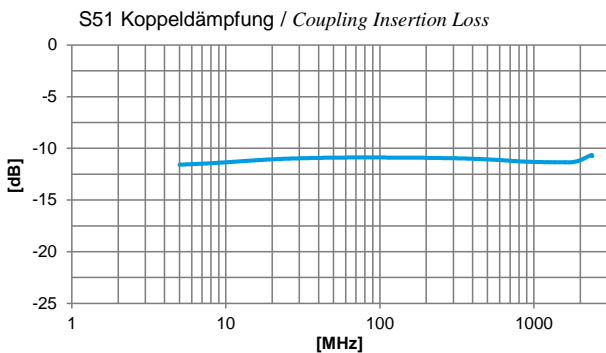
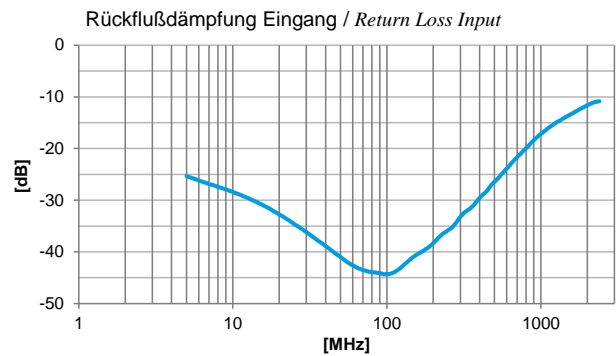
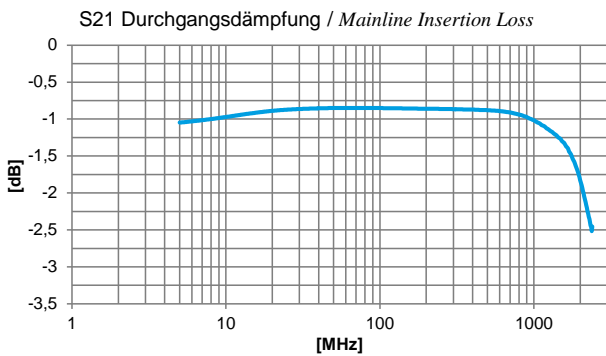
Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]				
	5	862	1218	1794	2400
1 → 5	11,5 ±0,5	11,5 ±0,5	11,5 ±0,5	11,5 ±1,0	11,5 ±1,0
1 → 2	< 1,2	< 1,3	< 1,3	< 1,6	< 2,9

Pinbelegung  
Terminal-assignment



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



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**Richtkoppler SM-T4 / Directional Coupler SM-T4**

10,5dB, 5 – 2400 MHz, 75Ω / 50Ω

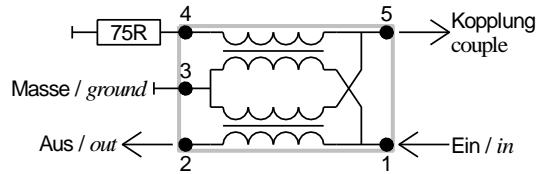
**00 5542 95**

**Elektrische Daten / electrical data:**

(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

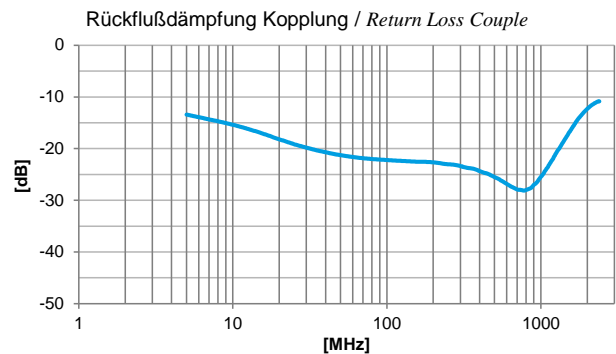
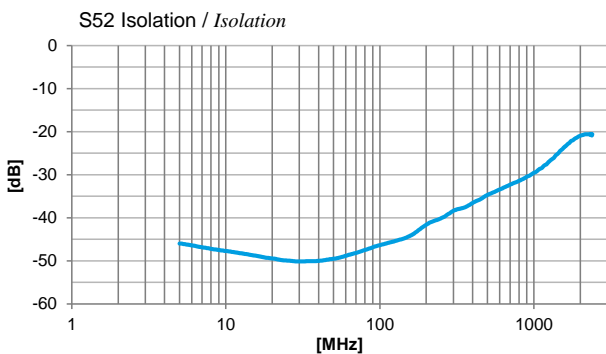
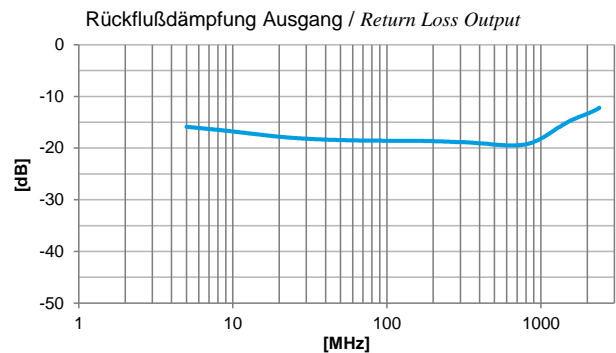
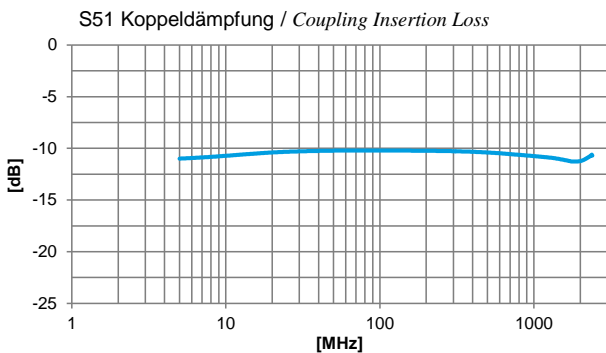
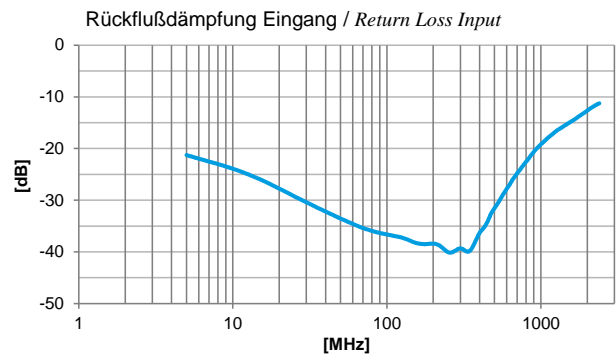
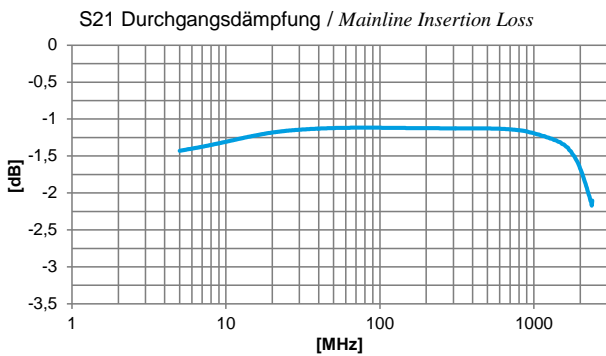
Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]				
	5	862	1218	1794	2400
1 → 5	11,0 ±0,5	10,5 ±0,5	10,5 ±0,5	11,5 ±1,0	11,5 ±1,0
1 → 2	< 1,6	< 1,3	< 1,3	< 1,6	< 2,2

Pinbelegung  
Terminal-assignment



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.

**Richtkoppler SM-T4 / Directional Coupler SM-T4**

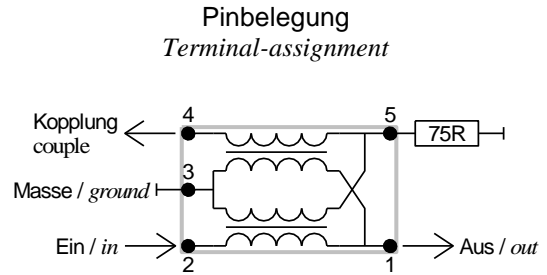
10dB, 5 – 1500 MHz, 75Ω / 50Ω

**00 5542 96**

**Elektrische Daten / electrical data:**

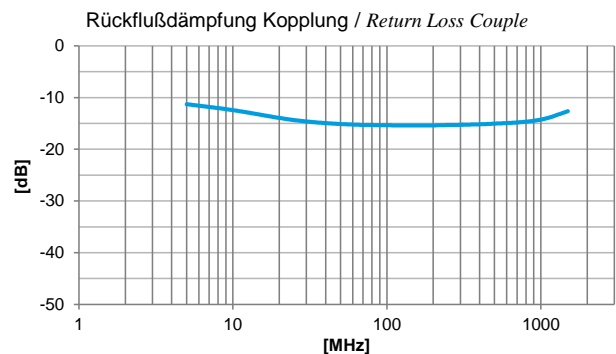
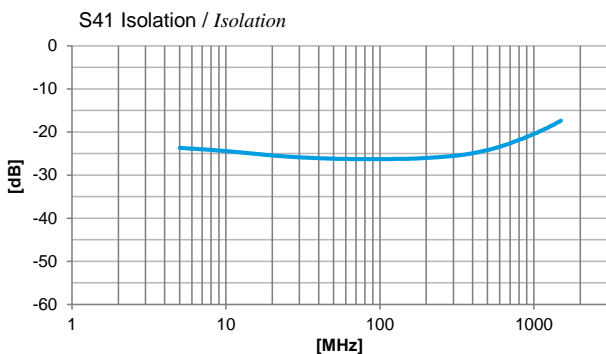
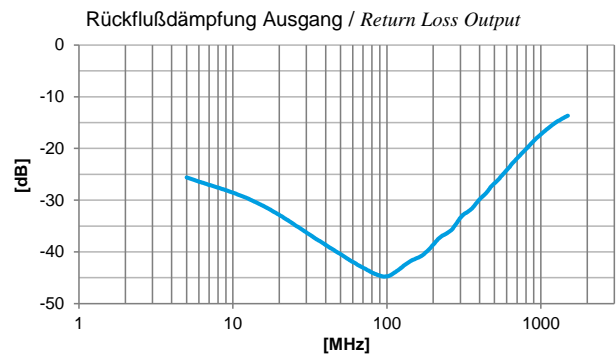
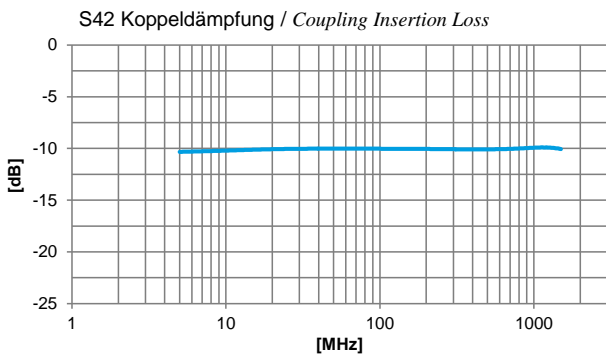
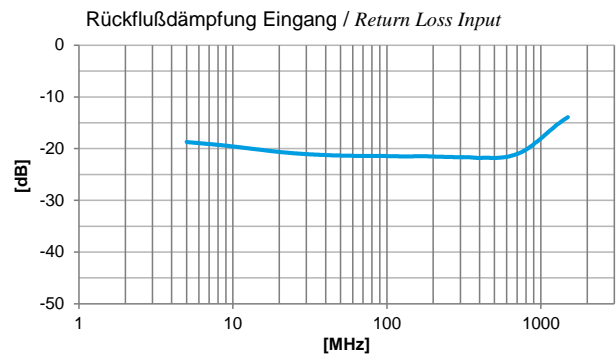
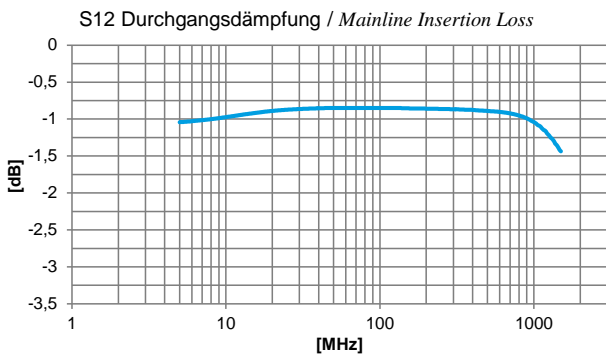
(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]			
	5	862	1218	1500
2 → 4	10,3 ±0,5	10,0 ±0,5	10,5 ±0,5	10,5 ±0,7
2 → 1	< 1,2	< 1,2	< 1,3	< 1,6



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.



**Richtkoppler SM-T4 / Directional Coupler SM-T4**

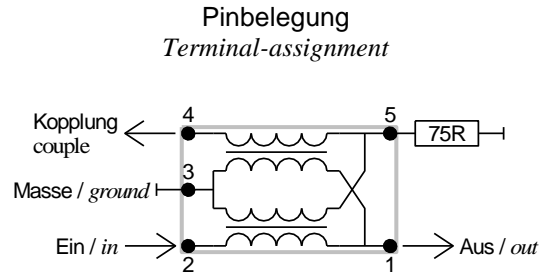
9,5dB, 5 – 1500 MHz, 75Ω / 50Ω

**00 5542 97**

**Elektrische Daten / electrical data:**

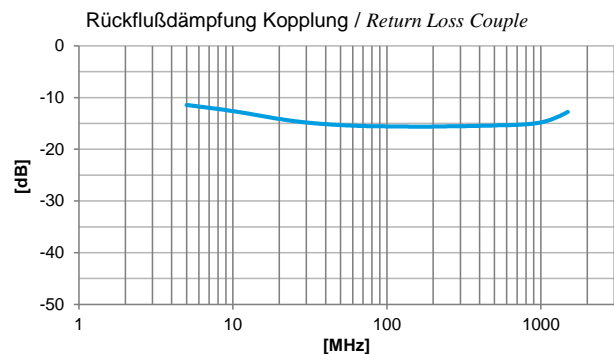
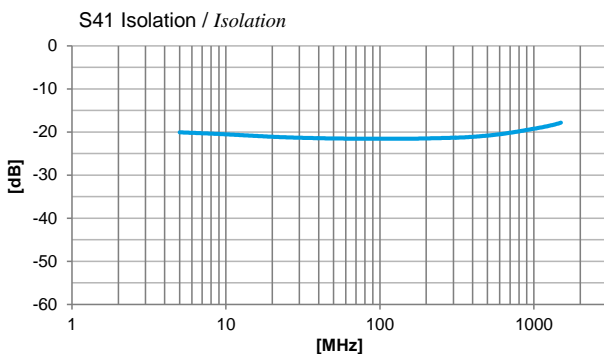
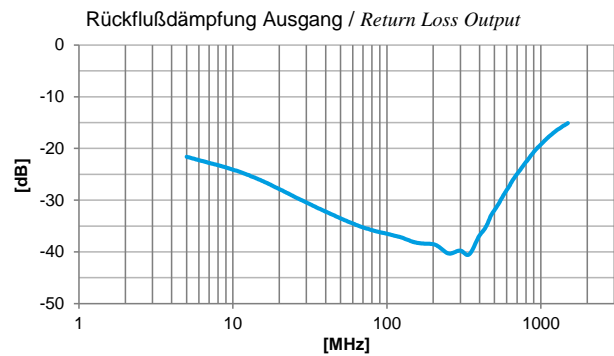
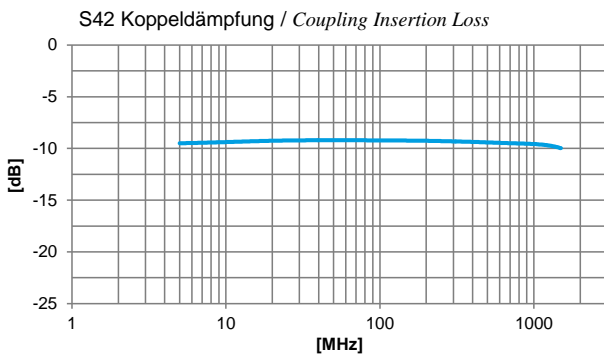
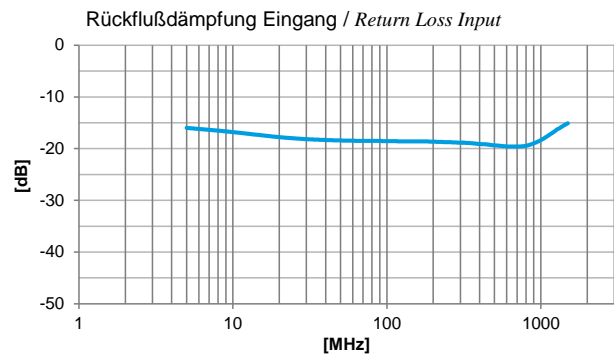
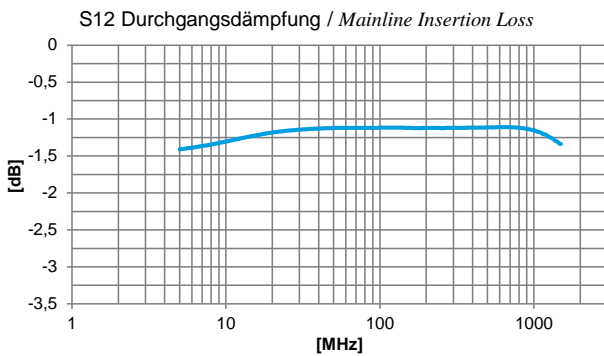
(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]			
	5	862	1218	1500
2 → 4	9,5 ±0,3	9,5 ±0,5	10,0 ±0,7	10,5 ±1,0
2 → 1	< 1,6	< 1,3	< 1,4	< 1,5



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.



**Richtkoppler SM-T4 / Directional Coupler SM-T4**

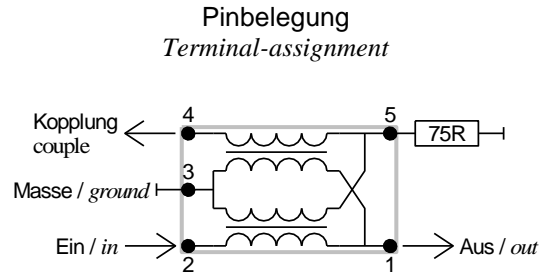
8,5dB, 5 – 1500 MHz, 75Ω / 50Ω

**00 5542 98**

**Elektrische Daten / electrical data:**

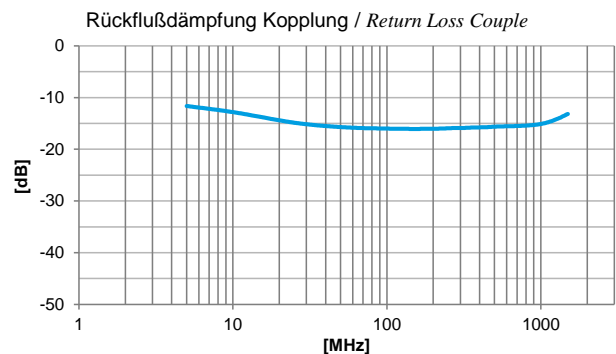
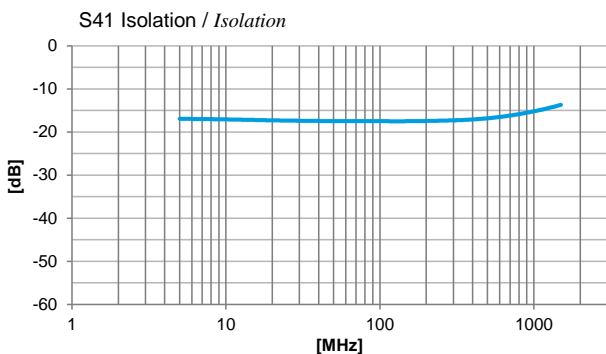
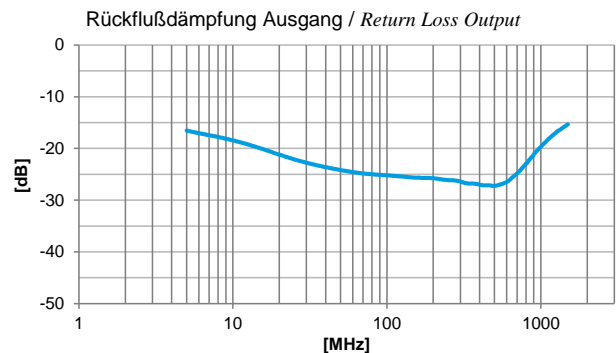
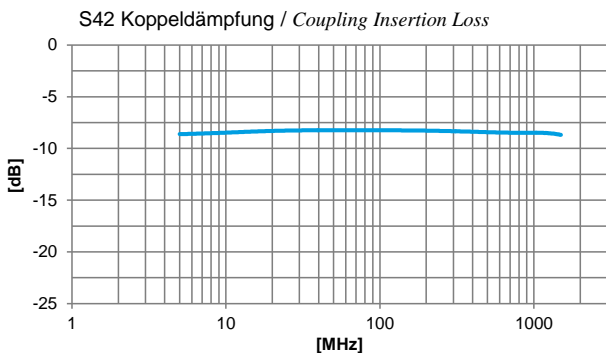
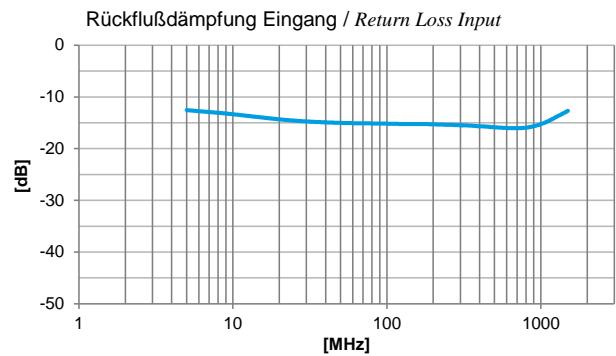
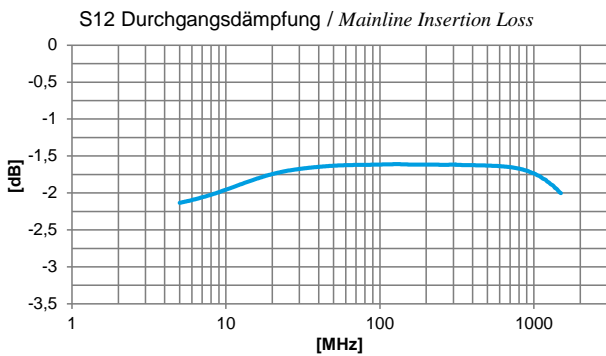
(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]			
	5	862	1218	1500
2 → 4	8,5 ±0,5	8,5 ±0,5	8,5 ±0,7	8,5 ±1,0
2 → 1	< 2,5	< 2,0	< 2,0	< 2,0



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.

**Richtkoppler SM-T4 / Directional Coupler SM-T4**

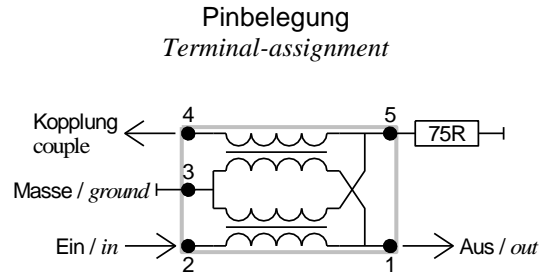
6,5dB, 5 – 1500 MHz, 75Ω / 50Ω

**00 5542 99**

**Elektrische Daten / electrical data:**

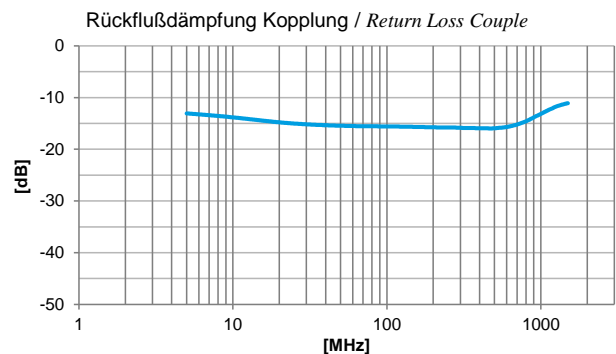
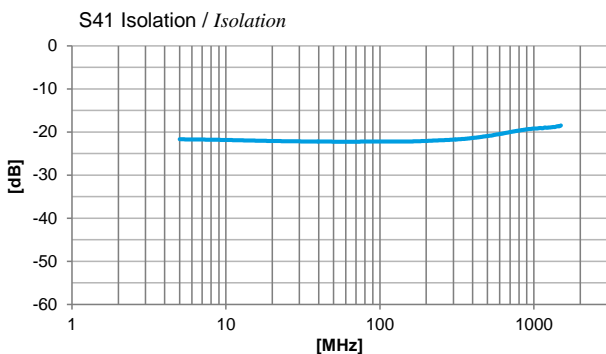
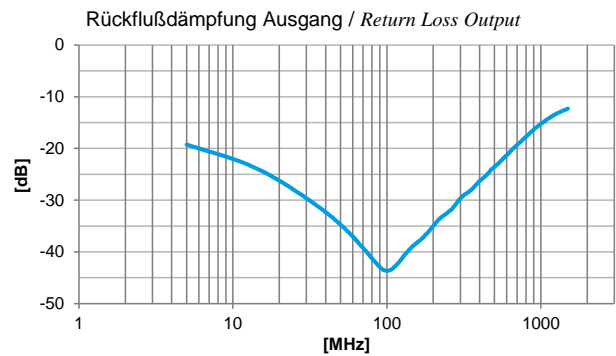
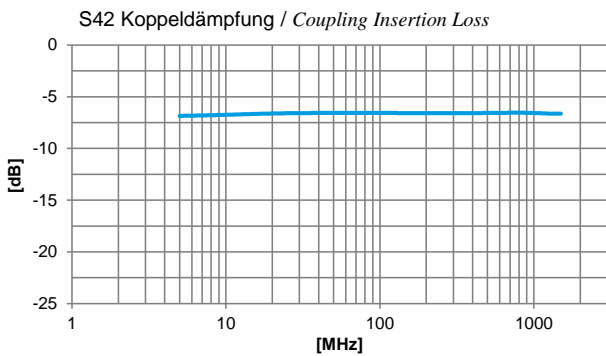
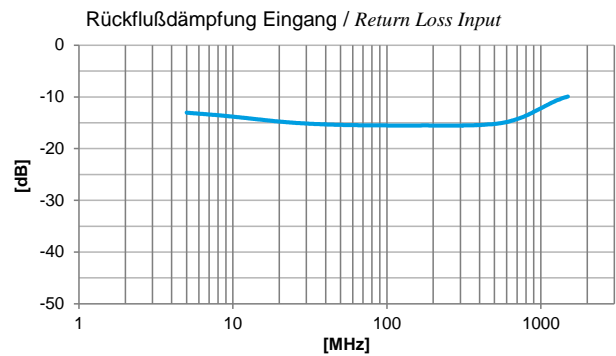
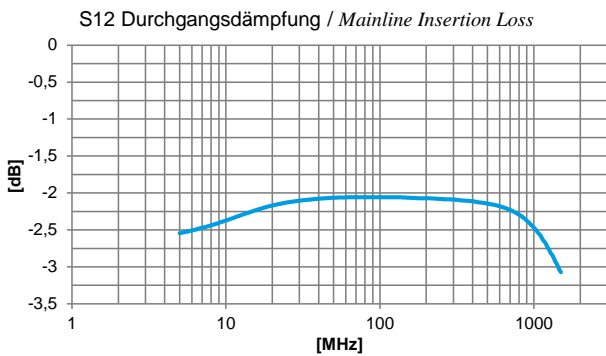
(Stückprüfung in 75Ω Umgebung / routine test in 75Ω environment)

Anschluß- Terminal- Nrn. Nos.	Durchgangsdämpfung [dB] bei f [MHz] Insertion loss [dB] at f [MHz]			
	5	862	1218	1500
2 → 4	6,5 ±0,6	6,5 ±0,5	6,5 ±0,5	6,5 ±0,6
2 → 1	< 2,7	< 2,7	< 2,7	< 3,2



**Typische Werte / typical values:**

(gemessen in 75Ω Umgebung / measured in 75Ω environment)



Alle Angaben ohne Gewähr. Irrtümer und Änderungen vorbehalten. No responsibility is taken for the correctness. Errors and changings reserved.