

Projektname: REF_MESSBOX.job

Test-Standard: ISO/IEC 11801 Am 2

Test Summary: **Bestanden**



Datum geprüft: Juni 29 2018

NVP: 79 %

Zeit geprüft: 21:18:06

Freq Bereich: 1 - 500MHz

Streckenname: **Referenz Messbox**

Bediener: Joel Zuppinger

Firmware: 3.200

Kunde:

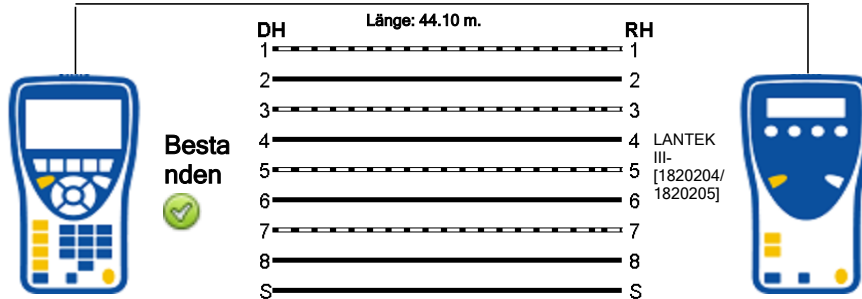
Grenzwert: ISO Ea PL2 STP Perm

Firma: PC-Plus Zuppinger

MFGDB:

Benutzer-Notizen:

Verdrahtung



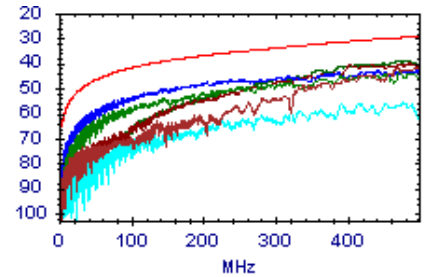
| Pair | Laufzeit (ns) | Laufzeitdifferenz (ns) | DC Widerstand (Ω) | Länge (m.) | Kapazität(pf/m.) | Impedanz (ohms) | Reserve (dB) |
|--------|---------------|------------------------|-------------------|-------------|------------------|-----------------|--------------|
| 7-8 | 186.0 | .0 | 11.6 | 44.1 | | | |
| 3-6 | 187.7 | 1.7 | 11.9 | 44.5 | | | |
| 5-4 | 187.7 | 1.7 | 11.9 | 44.5 | | | |
| 1-2 | 187.7 | 1.7 | 11.5 | 44.5 | | | |
| Limit | <487.0 | <43.0 | <20.0 | <.0 | | | |
| Result | ✔ Bestanden | ✔ Bestanden | ✔ Bestanden | ✔ Bestanden | | | |

NEXT

✔ Bestanden

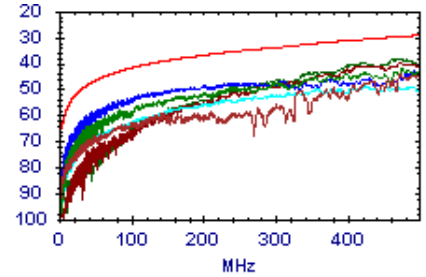
DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|---------|---------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8-3,6 | ✔ 42.1dB @ 468.0MHz | 29.9dB | 12.2dB | 42.0dB @ 495.0MHz | 29.3dB | 12.7dB |
| 7,8-5,4 | ✔ 45.2dB @ 390.0MHz | 31.6dB | 13.6dB | 43.5dB @ 472.0MHz | 29.8dB | 13.7dB |
| 7,8-1,2 | ✔ 56.3dB @ 392.0MHz | 31.5dB | 24.8dB | 55.8dB @ 478.0MHz | 29.7dB | 26.1dB |
| 3,6-5,4 | ✔ 47.6dB @ 205.0MHz | 36.8dB | 10.8dB | 43.0dB @ 500.0MHz | 29.2dB | 13.8dB |
| 3,6-1,2 | ✔ 40.9dB @ 403.0MHz | 31.3dB | 9.6dB | 40.2dB @ 486.0MHz | 29.5dB | 10.7dB |
| 5,4-1,2 | ✔ 39.0dB @ 470.0MHz | 29.8dB | 9.2dB | 38.8dB @ 483.0MHz | 29.6dB | 9.2dB |



RH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|---------|---------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8-3,6 | ✔ 44.0dB @ 473.0MHz | 29.8dB | 14.2dB | 44.0dB @ 473.0MHz | 29.8dB | 14.2dB |
| 7,8-5,4 | ✔ 42.2dB @ 475.0MHz | 29.7dB | 12.5dB | 42.2dB @ 475.0MHz | 29.7dB | 12.5dB |
| 7,8-1,2 | ✔ 50.0dB @ 358.0MHz | 32.4dB | 17.6dB | 48.9dB @ 424.0MHz | 30.8dB | 18.1dB |
| 3,6-5,4 | ✔ 52.3dB @ 109.0MHz | 41.2dB | 11.1dB | 43.1dB @ 493.0MHz | 29.4dB | 13.7dB |
| 3,6-1,2 | ✔ 41.2dB @ 411.0MHz | 31.1dB | 10.1dB | 39.9dB @ 472.0MHz | 29.8dB | 10.1dB |
| 5,4-1,2 | ✔ 38.4dB @ 470.0MHz | 29.8dB | 8.6dB | 38.4dB @ 474.0MHz | 29.7dB | 8.7dB |



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Bediener: Joel Zuppinger

Firmware: 3.200

Kunde:

Grenzwert: ISO Ea PL2 STP Perm

Firma: PC-Plus Zuppinger

MFGDB:

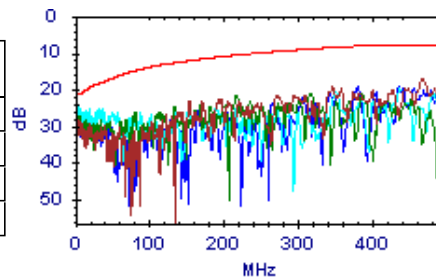
Benutzer-Notizen:

Rückflussdämpfung

Bestanden

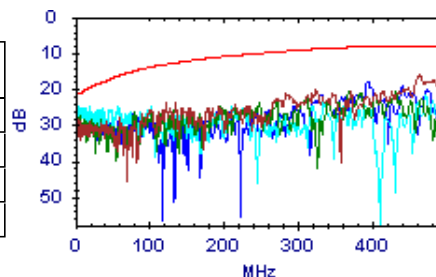
DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 16.9dB @ 469.0MHz | 8.0dB | 8.9dB | 16.9dB @ 469.0MHz | 8.0dB | 8.9dB |
| 3,6 | 28.6dB @ 12.0MHz | 20.6dB | 8.0dB | 21.3dB @ 387.0MHz | 8.1dB | 13.2dB |
| 5,4 | 26.1dB @ 12.0MHz | 20.6dB | 5.5dB | 19.9dB @ 437.0MHz | 8.0dB | 11.9dB |
| 1,2 | 29.0dB @ 12.0MHz | 20.6dB | 8.4dB | 19.0dB @ 381.0MHz | 8.2dB | 10.8dB |



RH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 16.1dB @ 464.0MHz | 8.0dB | 8.1dB | 16.1dB @ 465.0MHz | 8.0dB | 8.1dB |
| 3,6 | 28.7dB @ 12.0MHz | 20.6dB | 8.1dB | 20.6dB @ 432.0MHz | 8.0dB | 12.6dB |
| 5,4 | 25.3dB @ 12.0MHz | 20.6dB | 4.7dB | 21.7dB @ 473.0MHz | 8.0dB | 13.7dB |
| 1,2 | 28.9dB @ 12.0MHz | 20.6dB | 8.3dB | 18.0dB @ 395.0MHz | 8.0dB | 10.0dB |

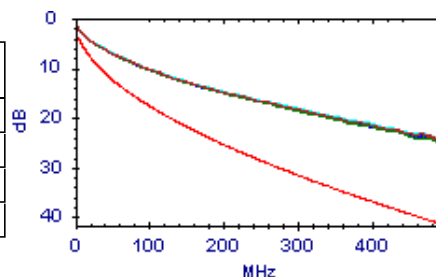


Einfügedämpfung

Bestanden

DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 2.2dB @ 5.1MHz | 4.0dB | 1.8dB | 25.0dB @ 494.0MHz | 41.4dB | 16.4dB |
| 3,6 | 2.3dB @ 5.4MHz | 4.0dB | 1.7dB | 25.1dB @ 494.0MHz | 41.4dB | 16.3dB |
| 5,4 | 2.2dB @ 5.1MHz | 4.0dB | 1.8dB | 24.7dB @ 495.0MHz | 41.4dB | 16.7dB |
| 1,2 | 2.3dB @ 5.4MHz | 4.0dB | 1.7dB | 25.0dB @ 499.0MHz | 41.6dB | 16.6dB |

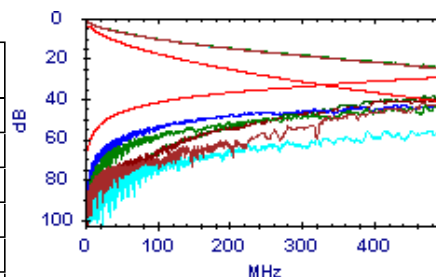


ACR-N

Bestanden

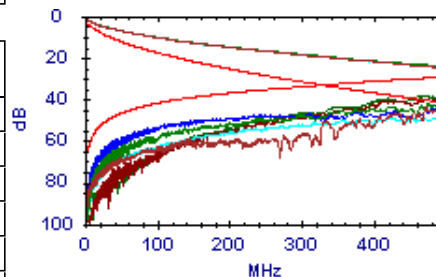
DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|---------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8-3,6 | 73.6dB @ 18.0MHz | 46.5dB | 27.1dB | 17.1dB @ 494.0MHz | -12.0dB | 29.1dB |
| 7,8-5,4 | 63.9dB @ 24.0MHz | 43.3dB | 20.6dB | 19.5dB @ 489.0MHz | -11.6dB | 31.1dB |
| 7,8-1,2 | 73.7dB @ 29.1MHz | 41.2dB | 32.5dB | 31.8dB @ 478.0MHz | -10.9dB | 42.7dB |
| 3,6-5,4 | 60.6dB @ 21.0MHz | 44.8dB | 15.8dB | 18.2dB @ 500.0MHz | -12.4dB | 30.6dB |
| 3,6-1,2 | 19.1dB @ 402.0MHz | -5.6dB | 24.7dB | 15.2dB @ 488.0MHz | -11.6dB | 26.8dB |
| 5,4-1,2 | 19.7dB @ 389.0MHz | -4.7dB | 24.4dB | 14.4dB @ 482.0MHz | -11.2dB | 25.6dB |



RH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|---------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8-3,6 | 71.5dB @ 18.0MHz | 46.5dB | 25.0dB | 19.9dB @ 472.0MHz | -10.5dB | 30.4dB |
| 7,8-5,4 | 61.7dB @ 29.1MHz | 41.2dB | 20.5dB | 18.6dB @ 475.0MHz | -10.8dB | 29.4dB |
| 7,8-1,2 | 66.2dB @ 32.0MHz | 40.0dB | 26.2dB | 24.4dB @ 489.0MHz | -11.6dB | 36.0dB |
| 3,6-5,4 | 60.4dB @ 21.0MHz | 44.8dB | 15.6dB | 18.0dB @ 493.0MHz | -11.9dB | 29.9dB |
| 3,6-1,2 | 18.9dB @ 411.0MHz | -6.3dB | 25.2dB | 15.4dB @ 488.0MHz | -11.6dB | 27.0dB |
| 5,4-1,2 | 17.2dB @ 421.0MHz | -7.0dB | 24.2dB | 14.4dB @ 482.0MHz | -11.2dB | 25.6dB |



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Zeit geprüft: 21:18:06

Freq Bereich: 1 - 500MHz

Streckenname: **Referenz Messbox**

Bediener: Joel Zuppinger

Firmware: 3.200

Kunde:

Grenzwert: ISO Ea PL2 STP Perm

Firma: PC-Plus Zuppinger

MFGDB:

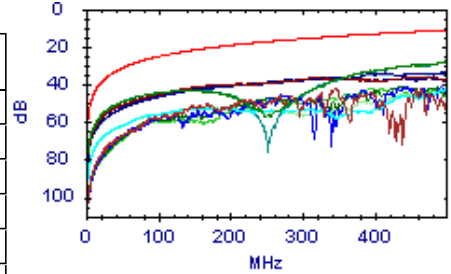
Benutzer-Notizen:

ACR-F

Bestanden

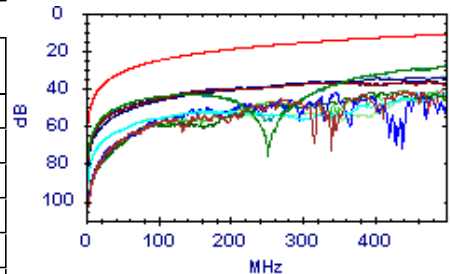
DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|---------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8-3,6 | 42.3dB @ 345.0MHz | 14.5dB | 27.8dB | 42.3dB @ 345.0MHz | 14.5dB | 27.8dB |
| 7,8-5,4 | 27.8dB @ 497.0MHz | 11.3dB | 16.5dB | 27.8dB @ 497.0MHz | 11.3dB | 16.5dB |
| 7,8-1,2 | 72.0dB @ 14.1MHz | 42.3dB | 29.7dB | 42.7dB @ 498.0MHz | 11.3dB | 31.4dB |
| 3,6-7,8 | 45.5dB @ 271.0MHz | 16.6dB | 28.9dB | 41.6dB @ 493.0MHz | 11.4dB | 30.2dB |
| 3,6-5,4 | 54.2dB @ 31.5MHz | 35.3dB | 18.9dB | 35.9dB @ 468.0MHz | 11.8dB | 24.1dB |
| 3,6-1,2 | 41.4dB @ 435.0MHz | 12.5dB | 28.9dB | 41.4dB @ 435.0MHz | 12.5dB | 28.9dB |
| 5,4-7,8 | 28.3dB @ 493.0MHz | 11.4dB | 16.9dB | 28.3dB @ 493.0MHz | 11.4dB | 16.9dB |
| 5,4-3,6 | 54.4dB @ 31.5MHz | 35.3dB | 19.1dB | 36.3dB @ 483.0MHz | 11.6dB | 24.7dB |
| 5,4-1,2 | 71.8dB @ 5.1MHz | 51.2dB | 20.6dB | 33.4dB @ 497.0MHz | 11.3dB | 22.1dB |
| 1,2-7,8 | 90.1dB @ 1.8MHz | 60.4dB | 29.7dB | 42.5dB @ 500.0MHz | 11.3dB | 31.2dB |
| 1,2-3,6 | 42.2dB @ 394.0MHz | 13.3dB | 28.9dB | 41.9dB @ 410.0MHz | 13.0dB | 28.9dB |
| 1,2-5,4 | 74.0dB @ 4.0MHz | 53.2dB | 20.8dB | 34.1dB @ 455.0MHz | 12.1dB | 22.0dB |



RH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|---------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8-3,6 | 45.5dB @ 271.0MHz | 16.6dB | 28.9dB | 41.6dB @ 493.0MHz | 11.4dB | 30.2dB |
| 7,8-5,4 | 28.3dB @ 493.0MHz | 11.4dB | 16.9dB | 28.3dB @ 493.0MHz | 11.4dB | 16.9dB |
| 7,8-1,2 | 90.1dB @ 1.8MHz | 60.4dB | 29.7dB | 42.5dB @ 500.0MHz | 11.3dB | 31.2dB |
| 3,6-7,8 | 42.3dB @ 345.0MHz | 14.5dB | 27.8dB | 42.3dB @ 345.0MHz | 14.5dB | 27.8dB |
| 3,6-5,4 | 54.4dB @ 31.5MHz | 35.3dB | 19.1dB | 36.3dB @ 483.0MHz | 11.6dB | 24.7dB |
| 3,6-1,2 | 42.2dB @ 394.0MHz | 13.3dB | 28.9dB | 41.9dB @ 410.0MHz | 13.0dB | 28.9dB |
| 5,4-7,8 | 27.8dB @ 497.0MHz | 11.3dB | 16.5dB | 27.8dB @ 497.0MHz | 11.3dB | 16.5dB |
| 5,4-3,6 | 54.2dB @ 31.5MHz | 35.3dB | 18.9dB | 35.9dB @ 468.0MHz | 11.8dB | 24.1dB |
| 5,4-1,2 | 74.0dB @ 4.0MHz | 53.2dB | 20.8dB | 34.1dB @ 455.0MHz | 12.1dB | 22.0dB |
| 1,2-7,8 | 72.0dB @ 14.1MHz | 42.3dB | 29.7dB | 42.7dB @ 498.0MHz | 11.3dB | 31.4dB |
| 1,2-3,6 | 41.4dB @ 435.0MHz | 12.5dB | 28.9dB | 41.4dB @ 435.0MHz | 12.5dB | 28.9dB |
| 1,2-5,4 | 71.8dB @ 5.1MHz | 51.2dB | 20.6dB | 33.4dB @ 497.0MHz | 11.3dB | 22.1dB |

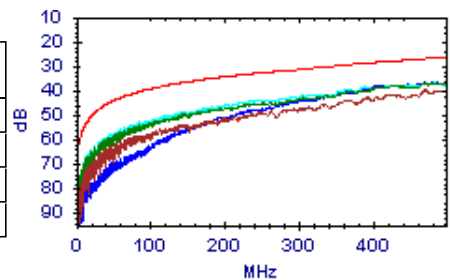


PS NEXT

Bestanden

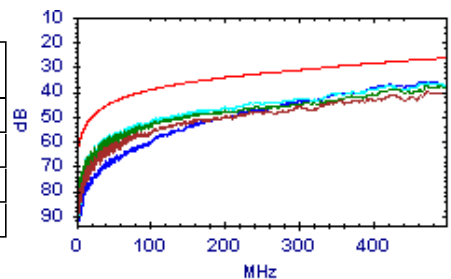
DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 39.9dB @ 471.0MHz | 27.0dB | 12.9dB | 39.8dB @ 472.0MHz | 26.9dB | 12.9dB |
| 3,6 | 38.1dB @ 426.0MHz | 28.0dB | 10.1dB | 37.1dB @ 495.0MHz | 26.5dB | 10.6dB |
| 5,4 | 38.4dB @ 388.0MHz | 28.9dB | 9.5dB | 36.8dB @ 485.0MHz | 26.7dB | 10.1dB |
| 1,2 | 38.0dB @ 403.0MHz | 28.5dB | 9.5dB | 36.4dB @ 483.0MHz | 26.7dB | 9.7dB |



RH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 39.8dB @ 474.0MHz | 26.9dB | 12.9dB | 39.8dB @ 474.0MHz | 26.9dB | 12.9dB |
| 3,6 | 37.7dB @ 472.0MHz | 26.9dB | 10.8dB | 37.7dB @ 472.0MHz | 26.9dB | 10.8dB |
| 5,4 | 37.6dB @ 421.0MHz | 28.1dB | 9.5dB | 36.4dB @ 475.0MHz | 26.9dB | 9.5dB |
| 1,2 | 37.1dB @ 421.0MHz | 28.1dB | 9.0dB | 35.9dB @ 472.0MHz | 26.9dB | 9.0dB |



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Bediener: Joel Zuppinger

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Kunde:

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Firma: PC-Plus Zuppinger

MFGDB:

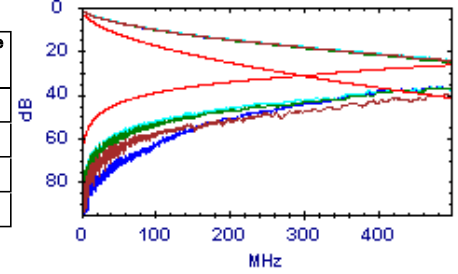
Benutzer-Notizen:

PS ACR-N

Bestanden

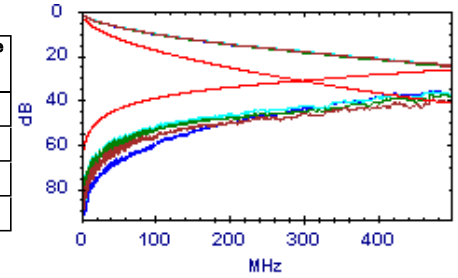
DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 62.8dB @ 24.0MHz | 40.9dB | 21.9dB | 15.2dB @ 494.0MHz | -14.9dB | 30.1dB |
| 3,6 | 60.2dB @ 21.0MHz | 42.4dB | 17.8dB | 12.0dB @ 493.0MHz | -14.8dB | 26.8dB |
| 5,4 | 59.3dB @ 21.0MHz | 42.4dB | 16.9dB | 12.4dB @ 490.0MHz | -14.6dB | 27.0dB |
| 1,2 | 16.1dB @ 402.0MHz | -8.4dB | 24.5dB | 12.1dB @ 482.0MHz | -14.1dB | 26.2dB |



RH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 59.7dB @ 29.1MHz | 38.8dB | 20.9dB | 15.8dB @ 489.0MHz | -14.5dB | 30.3dB |
| 3,6 | 59.8dB @ 21.0MHz | 42.4dB | 17.4dB | 12.9dB @ 488.0MHz | -14.5dB | 27.4dB |
| 5,4 | 59.2dB @ 21.0MHz | 42.4dB | 16.8dB | 12.5dB @ 490.0MHz | -14.6dB | 27.1dB |
| 1,2 | 15.4dB @ 410.0MHz | -9.0dB | 24.4dB | 11.8dB @ 488.0MHz | -14.5dB | 26.3dB |

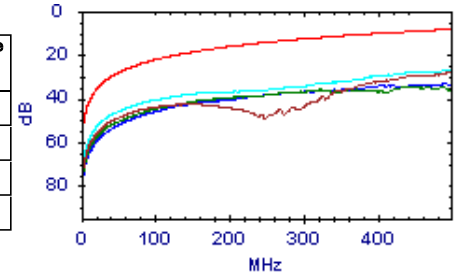


PS ACR-F

Bestanden

DH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 27.6dB @ 497.0MHz | 8.3dB | 19.3dB | 27.6dB @ 497.0MHz | 8.3dB | 19.3dB |
| 3,6 | 54.1dB @ 31.5MHz | 32.3dB | 21.8dB | 34.4dB @ 468.0MHz | 8.8dB | 25.6dB |
| 5,4 | 49.4dB @ 31.5MHz | 32.3dB | 17.1dB | 26.8dB @ 494.0MHz | 8.4dB | 18.4dB |
| 1,2 | 73.5dB @ 4.0MHz | 50.2dB | 23.3dB | 33.3dB @ 489.0MHz | 8.4dB | 24.9dB |



RH

| Paar | Schlechtester Fall | Grenzwert | Reserve | Schlechtester Gesamt Wert | Grenzwert | Reserve |
|------|--------------------|-----------|---------|---------------------------|-----------|---------|
| 7,8 | 27.9dB @ 493.0MHz | 8.4dB | 19.5dB | 27.9dB @ 493.0MHz | 8.4dB | 19.5dB |
| 3,6 | 54.2dB @ 31.5MHz | 32.3dB | 21.9dB | 35.2dB @ 483.0MHz | 8.6dB | 26.6dB |
| 5,4 | 67.3dB @ 4.0MHz | 50.2dB | 17.1dB | 26.6dB @ 497.0MHz | 8.3dB | 18.3dB |
| 1,2 | 71.3dB @ 5.1MHz | 48.2dB | 23.1dB | 32.6dB @ 497.0MHz | 8.3dB | 24.3dB |

