

# SCHWARZBECK MESS - ELEKTRONIK

An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

## VULP 9118 E-'High Power' Korrekturdaten für kurze Entfernung Spitze-Prüfling VULP 9118 E-'High Power' Correction for Short Distance Tip-EuT

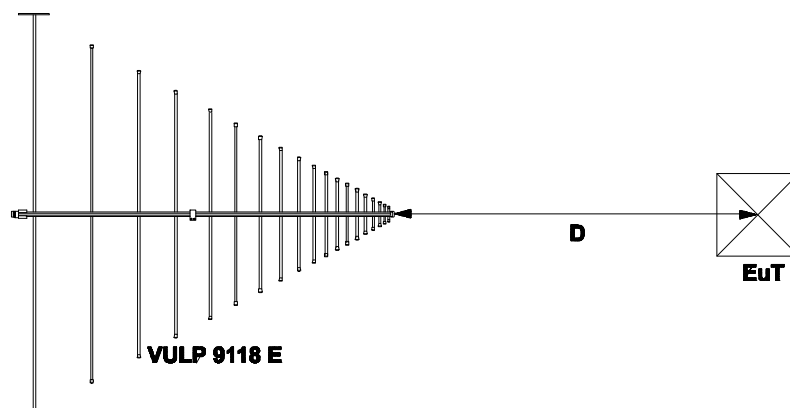
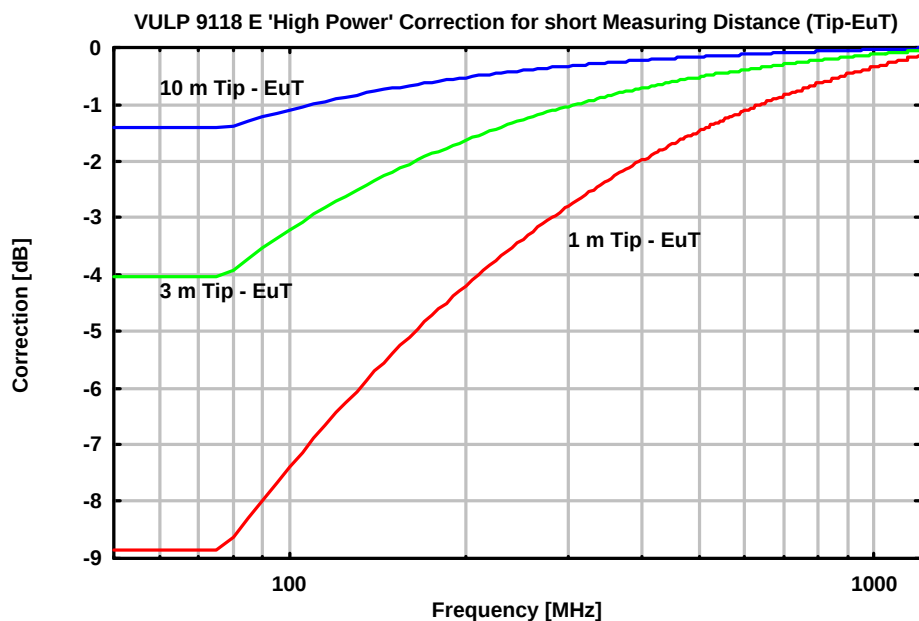
| Frequency                   | Gain(Iso.)                  | Ant.-Fact k                 | gi (10 m)                              | k (10m) | gi (3m)     | k (3m) | gi (1m)     | k (1m) |
|-----------------------------|-----------------------------|-----------------------------|----------------------------------------|---------|-------------|--------|-------------|--------|
| Frequenz                    | Gewinn                      | Ant.Faktor                  | gi (10 m)                              | k (10m) | gi (3m)     | k (3m) | gi (1m)     | k (1m) |
| MHz                         | dB <i>i</i>                 | dB/m                        | dB <i>i</i>                            | dB/m    | dB <i>i</i> | dB/m   | dB <i>i</i> | dB/m   |
| 60.0                        | 3.08                        | 2.70                        | 1.66                                   | 4.12    | -0.95       | 6.74   | -5.78       | 11.56  |
| 65.0                        | 2.66                        | 3.82                        | 1.24                                   | 5.24    | -1.38       | 7.86   | -6.21       | 12.68  |
| 70.0                        | 3.28                        | 3.85                        | 1.86                                   | 5.26    | -0.76       | 7.88   | -5.59       | 12.71  |
| 75.0                        | 4.59                        | 3.13                        | 3.17                                   | 4.55    | 0.55        | 7.17   | -4.28       | 12.00  |
| 80.0                        | 5.22                        | 3.07                        | 3.85                                   | 4.43    | 1.31        | 6.97   | -3.43       | 11.71  |
| 85.0                        | 5.71                        | 3.10                        | 4.42                                   | 4.38    | 2.00        | 6.81   | -2.59       | 11.39  |
| 90.0                        | 5.85                        | 3.45                        | 4.63                                   | 4.67    | 2.32        | 6.99   | -2.13       | 11.43  |
| 95.0                        | 5.90                        | 3.87                        | 4.75                                   | 5.03    | 2.53        | 7.24   | -1.78       | 11.55  |
| 100.0                       | 5.70                        | 4.52                        | 4.61                                   | 5.61    | 2.49        | 7.73   | -1.70       | 11.92  |
| 110.0                       | 5.51                        | 5.53                        | 4.52                                   | 6.52    | 2.57        | 8.48   | -1.37       | 12.42  |
| 120.0                       | 5.40                        | 6.40                        | 4.49                                   | 7.31    | 2.69        | 9.12   | -1.04       | 12.85  |
| 130.0                       | 6.30                        | 6.19                        | 5.47                                   | 7.03    | 3.78        | 8.71   | 0.24        | 12.26  |
| 140.0                       | 6.77                        | 6.37                        | 6.00                                   | 7.14    | 4.42        | 8.72   | 1.06        | 12.08  |
| 150.0                       | 7.19                        | 6.56                        | 6.47                                   | 7.27    | 5.00        | 8.74   | 1.80        | 11.95  |
| 160.0                       | 7.08                        | 7.22                        | 6.41                                   | 7.89    | 5.03        | 9.27   | 1.98        | 12.32  |
| 170.0                       | 7.39                        | 7.44                        | 6.76                                   | 8.07    | 5.46        | 9.37   | 2.55        | 12.28  |
| 180.0                       | 7.06                        | 8.26                        | 6.47                                   | 8.85    | 5.24        | 10.09  | 2.45        | 12.87  |
| 190.0                       | 7.22                        | 8.57                        | 6.67                                   | 9.12    | 5.51        | 10.29  | 2.85        | 12.95  |
| 200.0                       | 7.03                        | 9.21                        | 6.50                                   | 9.74    | 5.39        | 10.85  | 2.84        | 13.40  |
| 220.0                       | 6.78                        | 10.29                       | 6.31                                   | 10.76   | 5.31        | 11.76  | 2.95        | 14.12  |
| 240.0                       | 6.67                        | 11.15                       | 6.25                                   | 11.58   | 5.33        | 12.49  | 3.15        | 14.67  |
| 260.0                       | 6.35                        | 12.17                       | 5.97                                   | 12.55   | 5.13        | 13.39  | 3.12        | 15.40  |
| 280.0                       | 6.70                        | 12.47                       | 6.35                                   | 12.82   | 5.58        | 13.58  | 3.71        | 15.45  |
| 300.0                       | 7.01                        | 12.75                       | 6.69                                   | 13.07   | 5.98        | 13.78  | 4.22        | 15.55  |
| 325.0                       | 7.00                        | 13.46                       | 6.71                                   | 13.75   | 6.06        | 14.39  | 4.45        | 16.00  |
| 350.0                       | 6.84                        | 14.26                       | 6.57                                   | 14.53   | 5.98        | 15.12  | 4.49        | 16.61  |
| 375.0                       | 6.90                        | 14.80                       | 6.66                                   | 15.04   | 6.13        | 15.57  | 4.76        | 16.94  |
| 400.0                       | 6.84                        | 15.42                       | 6.62                                   | 15.64   | 6.13        | 16.13  | 4.87        | 17.39  |
| 425.0                       | 6.55                        | 16.24                       | 6.35                                   | 16.44   | 5.90        | 16.89  | 4.72        | 18.07  |
| 450.0                       | 6.75                        | 16.53                       | 6.57                                   | 16.72   | 6.15        | 17.13  | 5.06        | 18.22  |
| 475.0                       | 6.76                        | 16.99                       | 6.59                                   | 17.16   | 6.20        | 17.55  | 5.18        | 18.57  |
| 500.0                       | 6.85                        | 17.35                       | 6.69                                   | 17.51   | 6.33        | 17.87  | 5.37        | 18.83  |
| 550.0                       | 6.89                        | 18.14                       | 6.75                                   | 18.27   | 6.44        | 18.59  | 5.60        | 19.42  |
| 600.0                       | 6.63                        | 19.15                       | 6.51                                   | 19.27   | 6.25        | 19.54  | 5.53        | 20.25  |
| 650.0                       | 6.84                        | 19.64                       | 6.74                                   | 19.74   | 6.50        | 19.98  | 5.86        | 20.62  |
| 700.0                       | 6.89                        | 20.23                       | 6.80                                   | 20.32   | 6.60        | 20.52  | 6.06        | 21.06  |
| 750.0                       | 6.78                        | 20.94                       | 6.71                                   | 21.01   | 6.53        | 21.19  | 6.04        | 21.68  |
| 800.0                       | 6.77                        | 21.51                       | 6.71                                   | 21.58   | 6.56        | 21.72  | 6.14        | 22.14  |
| 850.0                       | 6.99                        | 21.82                       | 6.93                                   | 21.88   | 6.80        | 22.01  | 6.44        | 22.37  |
| 900.0                       | 6.28                        | 23.03                       | 6.23                                   | 23.07   | 6.12        | 23.18  | 5.81        | 23.49  |
| 950.0                       | 6.76                        | 23.01                       | 6.72                                   | 23.06   | 6.62        | 23.16  | 6.34        | 23.44  |
| 1000.0                      | 6.99                        | 23.23                       | 6.95                                   | 23.27   | 6.87        | 23.35  | 6.65        | 23.57  |
| <b>Bezugs-<br/>punkt:</b>   | <b>Strahlungs-<br/>zone</b> | <b>Strahlungs-<br/>zone</b> | <b>Spitze der Log. - Per. Struktur</b> |         |             |        |             |        |
| <b>Reference<br/>Point:</b> | <b>Radiating<br/>Zone</b>   | <b>Radiating<br/>Zone</b>   | <b>Tip of Log. - Per. Structure</b>    |         |             |        |             |        |

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## VULP 9118 E-'High Power' Korrekturdaten für kurze Entfernung Spitze-Prüfling VULP 9118 E-'High Power' Correction for Short Distance Tip-EuT

| Frequency           | Gain(Iso.)          | Ant.-Fact k         | gi (10 m)                       | k (10m) | gi (3m) | k (3m) | gi (1m) | k (1m) |
|---------------------|---------------------|---------------------|---------------------------------|---------|---------|--------|---------|--------|
| Frequenz            | Gewinn              | Ant.Faktor          | gi (10 m)                       | k (10m) | gi (3m) | k (3m) | gi (1m) | k (1m) |
| MHz                 | dB                  | dB/m                | dB                              | dB/m    | dB      | dB/m   | dB      | dB/m   |
| 1100.0              | 6.22                | 24.83               | 6.20                            | 24.85   | 6.15    | 24.90  | 6.01    | 25.04  |
| 1200.0              | 6.15                | 25.65               | 6.14                            | 25.66   | 6.11    | 25.69  | 6.02    | 25.78  |
| 1300.0              | 6.18                | 26.32               | 6.17                            | 26.33   | 6.16    | 26.34  | 6.13    | 26.37  |
| 1400.0              | 5.95                | 27.19               | 5.95                            | 27.19   | 5.95    | 27.19  | 5.95    | 27.19  |
| 1500.0              | 5.82                | 27.92               | 5.83                            | 27.91   | 5.85    | 27.89  | 5.91    | 27.83  |
| 1600.0              | 4.68                | 29.62               | 4.70                            | 29.61   | 4.73    | 29.58  | 4.81    | 29.49  |
| 1700.0              | 4.65                | 30.18               | 4.66                            | 30.16   | 4.70    | 30.12  | 4.82    | 30.01  |
| 1800.0              | 4.57                | 30.75               | 4.59                            | 30.73   | 4.64    | 30.68  | 4.79    | 30.53  |
| Bezugs-<br>punkt:   | Strahlungs-<br>zone | Strahlungs-<br>zone | Spitze der Log. - Per. Struktur |         |         |        |         |        |
| Reference<br>Point: | Radiating<br>Zone   | Radiating<br>Zone   | Tip of Log. - Per. Structure    |         |         |        |         |        |



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## VULP 9118 E-'High Power' Korrekturdaten für kurze Entfernung Mitte-Prüfling VULP 9118 E-'High Power' Correction for Short Distance Center-EuT

| Frequency                   | Gain(Iso.)                  | Ant.-Fact k                 | gi (10 m)                              | k (10m) | gi (3m) | k (3m) |
|-----------------------------|-----------------------------|-----------------------------|----------------------------------------|---------|---------|--------|
| Frequenz                    | Gewinn                      | Ant.Faktor                  | gi (10 m)                              | k (10m) | gi (3m) | k (3m) |
| MHz                         | dBi                         | dB/m                        | dBi                                    | dB/m    | dBi     | dB/m   |
| 60.0                        | 3.08                        | 2.70                        | 2.36                                   | 3.42    | 0.88    | 4.90   |
| 65.0                        | 2.66                        | 3.82                        | 1.94                                   | 4.54    | 0.46    | 6.02   |
| 70.0                        | 3.28                        | 3.85                        | 2.56                                   | 4.57    | 1.08    | 6.05   |
| 75.0                        | 4.59                        | 3.13                        | 3.87                                   | 3.85    | 2.39    | 5.33   |
| 80.0                        | 5.22                        | 3.07                        | 4.55                                   | 3.73    | 3.17    | 5.11   |
| 85.0                        | 5.71                        | 3.10                        | 5.13                                   | 3.67    | 3.92    | 4.89   |
| 90.0                        | 5.85                        | 3.45                        | 5.35                                   | 3.96    | 4.28    | 5.03   |
| 95.0                        | 5.90                        | 3.87                        | 5.47                                   | 4.31    | 4.54    | 5.24   |
| 100.0                       | 5.70                        | 4.52                        | 5.33                                   | 4.89    | 4.53    | 5.69   |
| 110.0                       | 5.51                        | 5.53                        | 5.26                                   | 5.79    | 4.69    | 6.36   |
| 120.0                       | 5.40                        | 6.40                        | 5.24                                   | 6.57    | 4.87    | 6.94   |
| 130.0                       | 6.30                        | 6.19                        | 6.22                                   | 6.28    | 6.02    | 6.48   |
| 140.0                       | 6.77                        | 6.37                        | 6.75                                   | 6.39    | 6.71    | 6.43   |
| 150.0                       | 7.19                        | 6.56                        | 7.23                                   | 6.51    | 7.33    | 6.41   |
| 160.0                       | 7.08                        | 7.22                        | 7.18                                   | 7.12    | 7.41    | 6.89   |
| 170.0                       | 7.39                        | 7.44                        | 7.53                                   | 7.30    | 7.88    | 6.95   |
| 180.0                       | 7.06                        | 8.26                        | 7.25                                   | 8.08    | 7.69    | 7.63   |
| 190.0                       | 7.22                        | 8.57                        | 7.45                                   | 8.35    | 7.99    | 7.80   |
| 200.0                       | 7.03                        | 9.21                        | 7.28                                   | 8.96    | 7.91    | 8.33   |
| 220.0                       | 6.78                        | 10.29                       | 7.09                                   | 9.97    | 7.87    | 9.19   |
| 240.0                       | 6.67                        | 11.15                       | 7.04                                   | 10.79   | 7.95    | 9.88   |
| 260.0                       | 6.35                        | 12.17                       | 6.76                                   | 11.76   | 7.79    | 10.73  |
| 280.0                       | 6.70                        | 12.47                       | 7.14                                   | 12.02   | 8.28    | 10.88  |
| 300.0                       | 7.01                        | 12.75                       | 7.49                                   | 12.27   | 8.70    | 11.06  |
| 325.0                       | 7.00                        | 13.46                       | 7.51                                   | 12.95   | 8.83    | 11.63  |
| 350.0                       | 6.84                        | 14.26                       | 7.38                                   | 13.73   | 8.78    | 12.32  |
| 375.0                       | 6.90                        | 14.80                       | 7.47                                   | 14.23   | 8.95    | 12.75  |
| 400.0                       | 6.84                        | 15.42                       | 7.43                                   | 14.83   | 8.98    | 13.28  |
| 425.0                       | 6.55                        | 16.24                       | 7.16                                   | 15.63   | 8.77    | 14.02  |
| 450.0                       | 6.75                        | 16.53                       | 7.38                                   | 15.91   | 9.04    | 14.24  |
| 475.0                       | 6.76                        | 16.99                       | 7.40                                   | 16.35   | 9.11    | 14.64  |
| 500.0                       | 6.85                        | 17.35                       | 7.50                                   | 16.70   | 9.25    | 14.95  |
| 550.0                       | 6.89                        | 18.14                       | 7.57                                   | 17.46   | 9.39    | 15.64  |
| 600.0                       | 6.63                        | 19.15                       | 7.33                                   | 18.45   | 9.23    | 16.56  |
| 650.0                       | 6.84                        | 19.64                       | 7.56                                   | 18.92   | 9.50    | 16.98  |
| 700.0                       | 6.89                        | 20.23                       | 7.62                                   | 19.50   | 9.62    | 17.50  |
| 750.0                       | 6.78                        | 20.94                       | 7.53                                   | 20.19   | 9.56    | 18.16  |
| 800.0                       | 6.77                        | 21.51                       | 7.53                                   | 20.75   | 9.60    | 18.68  |
| 850.0                       | 6.99                        | 21.82                       | 7.75                                   | 21.05   | 9.86    | 18.95  |
| 900.0                       | 6.28                        | 23.03                       | 7.05                                   | 22.25   | 9.19    | 20.11  |
| 950.0                       | 6.76                        | 23.01                       | 7.54                                   | 22.23   | 9.70    | 20.08  |
| 1000.0                      | 6.99                        | 23.23                       | 7.78                                   | 22.44   | 9.96    | 20.26  |
| <b>Bezugs-<br/>punkt:</b>   | <b>Strahlungs-<br/>zone</b> | <b>Strahlungs-<br/>zone</b> | <b>Mitte der Log. - Per. Struktur</b>  |         |         |        |
| <b>Reference<br/>Point:</b> | <b>Radiating<br/>Zone</b>   | <b>Radiating<br/>Zone</b>   | <b>Center of Log. - Per. Structure</b> |         |         |        |

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| Frequency                         | Gain(Iso.)                        | Ant.-Fact k                       | gi (10 m)                              | k (10m) | gi (3m) | k (3m) |
|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|---------|---------|--------|
| Frequenz                          | Gewinn                            | Ant.Faktor                        | gi (10 m)                              | k (10m) | gi (3m) | k (3m) |
| MHz                               | dB                                | dB/m                              | dB                                     | dB/m    | dB      | dB/m   |
| 1100.0                            | 6.22                              | 24.83                             | 7.02                                   | 24.02   | 9.26    | 21.79  |
| 1200.0                            | 6.15                              | 25.65                             | 6.97                                   | 24.84   | 9.23    | 22.57  |
| 1300.0                            | 6.18                              | 26.32                             | 7.00                                   | 25.50   | 9.30    | 23.20  |
| 1400.0                            | 5.95                              | 27.19                             | 6.78                                   | 26.36   | 9.09    | 24.05  |
| 1500.0                            | 5.82                              | 27.92                             | 6.66                                   | 27.08   | 9.00    | 24.74  |
| 1600.0                            | 4.68                              | 29.62                             | 5.53                                   | 28.78   | 7.89    | 26.42  |
| 1700.0                            | 4.65                              | 30.18                             | 5.49                                   | 29.33   | 7.87    | 26.96  |
| 1800.0                            | 4.57                              | 30.75                             | 5.42                                   | 29.90   | 7.82    | 27.51  |
| <b>Bezugs-</b><br><b>punkt:</b>   | <b>Strahlungs-</b><br><b>zone</b> | <b>Strahlungs-</b><br><b>zone</b> | <b>Mitte der Log. - Per. Struktur</b>  |         |         |        |
| <b>Reference</b><br><b>Point:</b> | <b>Radiating</b><br><b>Zone</b>   | <b>Radiating</b><br><b>Zone</b>   | <b>Center of Log. - Per. Structure</b> |         |         |        |

