

# SCHWARZBECK MESS - ELEKTRONIK

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

## VULP 9118 E-special Korrekturdaten für kurze Meßentfernung Spitze-Prüfling VULP 9118 E-special Correction for Short Measuring 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                 | dBi                 | dB/m                | dBi                             | dB/m    | dBi     | dB/m   | dBi     | dB/m   |
| 50.0                | -13.11              | 17.31               | -14.53                          | 18.72   | -17.14  | 21.34  | -21.96  | 26.16  |
| 60.0                | -2.99               | 8.77                | -4.41                           | 10.19   | -7.02   | 12.80  | -11.84  | 17.62  |
| 70.0                | 3.56                | 3.56                | 2.14                            | 4.98    | -0.47   | 7.59   | -5.29   | 12.41  |
| 75.0                | 4.58                | 3.14                | 3.16                            | 4.56    | 0.55    | 7.17   | -4.27   | 11.99  |
| 80.0                | 5.05                | 3.23                | 3.69                            | 4.60    | 1.15    | 7.13   | -3.58   | 11.86  |
| 90.0                | 5.78                | 3.52                | 4.56                            | 4.75    | 2.24    | 7.07   | -2.21   | 11.52  |
| 100.0               | 6.15                | 4.07                | 5.05                            | 5.17    | 2.91    | 7.31   | -1.29   | 11.51  |
| 110.0               | 6.29                | 4.76                | 5.29                            | 5.76    | 3.32    | 7.73   | -0.66   | 11.70  |
| 120.0               | 6.20                | 5.60                | 5.28                            | 6.53    | 3.44    | 8.36   | -0.33   | 12.13  |
| 130.0               | 6.56                | 5.94                | 5.71                            | 6.79    | 4.00    | 8.50   | 0.41    | 12.09  |
| 140.0               | 6.83                | 6.31                | 6.04                            | 7.10    | 4.43    | 8.71   | 1.01    | 12.14  |
| 150.0               | 6.81                | 6.93                | 6.07                            | 7.67    | 4.56    | 9.18   | 1.30    | 12.44  |
| 160.0               | 6.80                | 7.51                | 6.11                            | 8.19    | 4.68    | 9.62   | 1.55    | 12.75  |
| 170.0               | 6.80                | 8.03                | 6.15                            | 8.68    | 4.80    | 10.02  | 1.82    | 13.01  |
| 180.0               | 6.73                | 8.59                | 6.12                            | 9.21    | 4.84    | 10.49  | 1.97    | 13.36  |
| 190.0               | 6.71                | 9.09                | 6.13                            | 9.66    | 4.91    | 10.88  | 2.15    | 13.64  |
| 200.0               | 6.68                | 9.56                | 6.13                            | 10.11   | 4.96    | 11.28  | 2.30    | 13.94  |
| 220.0               | 6.77                | 10.30               | 6.27                            | 10.80   | 5.21    | 11.86  | 2.74    | 14.33  |
| 240.0               | 6.82                | 11.01               | 6.37                            | 11.46   | 5.39    | 12.43  | 3.10    | 14.73  |
| 260.0               | 6.65                | 11.87               | 6.23                            | 12.29   | 5.32    | 13.20  | 3.16    | 15.36  |
| 280.0               | 6.64                | 12.53               | 6.25                            | 12.91   | 5.41    | 13.75  | 3.38    | 15.78  |
| 300.0               | 6.70                | 13.07               | 6.34                            | 13.42   | 5.56    | 14.20  | 3.65    | 16.11  |
| 325.0               | 6.54                | 13.91               | 6.21                            | 14.25   | 5.49    | 14.97  | 3.71    | 16.75  |
| 350.0               | 6.55                | 14.55               | 6.25                            | 14.85   | 5.58    | 15.52  | 3.91    | 17.19  |
| 375.0               | 6.68                | 15.02               | 6.40                            | 15.30   | 5.77    | 15.93  | 4.20    | 17.50  |
| 400.0               | 6.73                | 15.53               | 6.47                            | 15.79   | 5.89    | 16.37  | 4.42    | 17.84  |
| 425.0               | 6.58                | 16.21               | 6.34                            | 16.45   | 5.79    | 17.00  | 4.40    | 18.39  |
| 450.0               | 6.52                | 16.76               | 6.29                            | 16.99   | 5.78    | 17.50  | 4.48    | 18.81  |
| 475.0               | 6.58                | 17.18               | 6.37                            | 17.39   | 5.88    | 17.87  | 4.64    | 19.11  |
| 500.0               | 6.52                | 17.68               | 6.32                            | 17.88   | 5.86    | 18.33  | 4.69    | 19.51  |
| 550.0               | 6.59                | 18.44               | 6.41                            | 18.62   | 6.00    | 19.02  | 4.93    | 20.09  |
| 600.0               | 6.47                | 19.31               | 6.31                            | 19.48   | 5.94    | 19.85  | 4.96    | 20.82  |
| 700.0               | 6.55                | 20.57               | 6.42                            | 20.71   | 6.11    | 21.01  | 5.30    | 21.82  |
| 800.0               | 6.41                | 21.87               | 6.30                            | 21.98   | 6.04    | 22.24  | 5.35    | 22.93  |
| 900.0               | 6.50                | 22.80               | 6.40                            | 22.90   | 6.19    | 23.12  | 5.59    | 23.71  |
| 1000.0              | 6.36                | 23.86               | 6.28                            | 23.94   | 6.09    | 24.13  | 5.57    | 24.65  |
| 1200.0              | 5.76                | 26.04               | 5.70                            | 26.10   | 5.56    | 26.24  | 5.17    | 26.63  |
| 1400.0              | 4.91                | 28.24               | 4.86                            | 28.28   | 4.75    | 28.39  | 4.44    | 28.70  |
| 1600.0              | 3.54                | 30.76               | 3.50                            | 30.80   | 3.41    | 30.89  | 3.16    | 31.14  |
| 1800.0              | 2.86                | 32.47               | 2.83                            | 32.50   | 2.76    | 32.57  | 2.56    | 32.76  |
| 2000.0              | 1.69                | 34.55               | 1.67                            | 34.57   | 1.62    | 34.62  | 1.48    | 34.77  |
| 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-special Korrekturdaten für kurze Meßentfernung Mitte-Prüfling VULP 9118 E-special Correction for Short Measuring 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   |
| 50.0                | -13.11              | 17.31               | -13.85                          | 18.05   | -15.36  | 19.55  |
| 60.0                | -2.99               | 8.77                | -3.73                           | 9.51    | -5.24   | 11.02  |
| 70.0                | 3.56                | 3.56                | 2.82                            | 4.30    | 1.31    | 5.81   |
| 75.0                | 4.58                | 3.14                | 3.84                            | 3.88    | 2.33    | 5.39   |
| 80.0                | 5.05                | 3.23                | 4.37                            | 3.91    | 2.96    | 5.32   |
| 90.0                | 5.78                | 3.52                | 5.25                            | 4.05    | 4.14    | 5.17   |
| 100.0               | 6.15                | 4.07                | 5.75                            | 4.47    | 4.89    | 5.33   |
| 110.0               | 6.29                | 4.76                | 6.00                            | 5.05    | 5.36    | 5.69   |
| 120.0               | 6.20                | 5.60                | 6.00                            | 5.81    | 5.54    | 6.26   |
| 130.0               | 6.56                | 5.94                | 6.43                            | 6.06    | 6.15    | 6.35   |
| 140.0               | 6.83                | 6.31                | 6.77                            | 6.37    | 6.63    | 6.51   |
| 150.0               | 6.81                | 6.93                | 6.81                            | 6.93    | 6.81    | 6.93   |
| 160.0               | 6.80                | 7.51                | 6.85                            | 7.45    | 6.96    | 7.34   |
| 170.0               | 6.80                | 8.03                | 6.90                            | 7.93    | 7.12    | 7.70   |
| 180.0               | 6.73                | 8.59                | 6.87                            | 8.46    | 7.19    | 8.13   |
| 190.0               | 6.71                | 9.09                | 6.88                            | 8.91    | 7.29    | 8.50   |
| 200.0               | 6.68                | 9.56                | 6.88                            | 9.36    | 7.37    | 8.87   |
| 220.0               | 6.77                | 10.30               | 7.03                            | 10.04   | 7.67    | 9.40   |
| 240.0               | 6.82                | 11.01               | 7.13                            | 10.69   | 7.90    | 9.93   |
| 260.0               | 6.65                | 11.87               | 7.00                            | 11.52   | 7.86    | 10.66  |
| 280.0               | 6.64                | 12.53               | 7.02                            | 12.14   | 7.98    | 11.18  |
| 300.0               | 6.70                | 13.07               | 7.11                            | 12.65   | 8.16    | 11.60  |
| 325.0               | 6.54                | 13.91               | 6.99                            | 13.47   | 8.12    | 12.33  |
| 350.0               | 6.55                | 14.55               | 7.02                            | 14.08   | 8.24    | 12.86  |
| 375.0               | 6.68                | 15.02               | 7.18                            | 14.52   | 8.46    | 13.24  |
| 400.0               | 6.73                | 15.53               | 7.25                            | 15.01   | 8.60    | 13.67  |
| 425.0               | 6.58                | 16.21               | 7.12                            | 15.67   | 8.52    | 14.27  |
| 450.0               | 6.52                | 16.76               | 7.08                            | 16.21   | 8.53    | 14.75  |
| 475.0               | 6.58                | 17.18               | 7.15                            | 16.60   | 8.65    | 15.11  |
| 500.0               | 6.52                | 17.68               | 7.10                            | 17.10   | 8.64    | 15.56  |
| 550.0               | 6.59                | 18.44               | 7.20                            | 17.83   | 8.80    | 16.22  |
| 600.0               | 6.47                | 19.31               | 7.10                            | 18.69   | 8.76    | 17.02  |
| 700.0               | 6.55                | 20.57               | 7.21                            | 19.91   | 8.97    | 18.15  |
| 800.0               | 6.41                | 21.87               | 7.09                            | 21.19   | 8.93    | 19.35  |
| 900.0               | 6.50                | 22.80               | 7.20                            | 22.10   | 9.10    | 20.21  |
| 1000.0              | 6.36                | 23.86               | 7.07                            | 23.15   | 9.01    | 21.21  |
| 1200.0              | 5.76                | 26.04               | 6.50                            | 25.31   | 8.51    | 23.29  |
| 1400.0              | 4.91                | 28.24               | 5.66                            | 27.48   | 7.72    | 25.42  |
| 1600.0              | 3.54                | 30.76               | 4.30                            | 30.00   | 6.39    | 27.91  |
| 1800.0              | 2.86                | 32.47               | 3.63                            | 31.69   | 5.75    | 29.57  |
| 2000.0              | 1.69                | 34.55               | 2.47                            | 33.77   | 4.62    | 31.62  |
| Bezugs-<br>punkt:   | Strahlungs-<br>zone | Strahlungs-<br>zone | Mitte der Log. - Per. Struktur  |         |         |        |
| Reference<br>Point: | Radiating<br>Zone   | Radiating<br>Zone   | Center of Log. - Per. Structure |         |         |        |

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## VULP 9118 E-special Korrekturdaten für kurze Meßentfernung *VULP 9118 E-special Correction for Short Measuring Distance*

