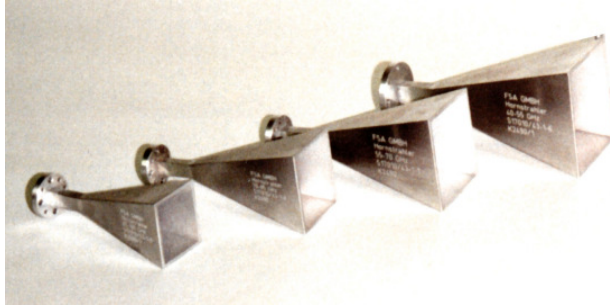


## Horn Antenna Group

### S17010/43-1-6 to 9

40 – 105 GHz



The horn antenna group series S17010/43 for the frequency range 40 to 105 GHz is made up of four individual linear polarized horn radiators. When fed from a 200 W amplifier the generation of field strengths up to 500 V/m at 2m distance is possible. Optional mounting for each horn is available, which includes an assembly whereby the elevation of the horn can be manually set over the range of  $\pm 20^\circ$ . The setting of the polarization in the range of  $0^\circ - 90^\circ$  can be made manually or by remote control using the model S42050 / 03 - 4 controller.

#### Technical Data

| Type S17010/43-1-     | 6                           | 7       | 8       | 9        |
|-----------------------|-----------------------------|---------|---------|----------|
| <b>Electrical</b>     |                             |         |         |          |
| Frequency Range [GHz] | 40 - 55                     | 55 - 70 | 70 - 85 | 85 - 105 |
| Gain [dBi]            | 24 dBi +1 / -2 dB           |         |         |          |
| Polarization          | linear                      |         |         |          |
| Beamwidth (3dB)       | typ. $11^\circ \pm 2^\circ$ |         |         |          |
| VSWR (max.)           | 2 : 1                       |         |         |          |
| RF Input Power [W]    | max. 300 W                  |         |         |          |
| <b>Mechanical</b>     |                             |         |         |          |
| RF Connector          | WR-19                       | WR-15   | WR-12   | WR-10    |
| Dimensions [mm]       |                             |         |         |          |
| Width                 | 51                          | 43      | 36      | 29       |
| Height                | 43                          | 36      | 30      | 25       |
| Length                | 100                         | 90      | 80      | 70       |