

PRODUCT RELEASE

Sector and Omni Antennas for Surveillance Applications

The most important thing we build is trust

Rugged omni and sector antennas have been developed for COFDM video systems air to ground applications in L, S and C-Bands.

There are three rugged omni antennas:

EVD2-1400-D1/1248 1.35 to 1.45GHz 2dBi gain

EVD2- 2.3V/1639 2.3 to 2.4GHz 2dBi gain

OA4-4.4-5.8V/1662 4.4 to 5.1 GHz 4dBi gain

Each omni antenna has a base with multiple fixing holes to provide secure installation on airframes.

Three sector antennas:

SA11-100-1.3V/1607 1.15 to 1.40GHz 11dBi gain

SA11-100-2.4V/1633 2.0 to 2.7GHz 12dBi gain

SA12-120-4.8V/1659 4.4 to 5.1GHz 12dBi gain

These antennas can be developed at other frequency ranges if required.

For further information contact Cobham Antenna Systems direct:

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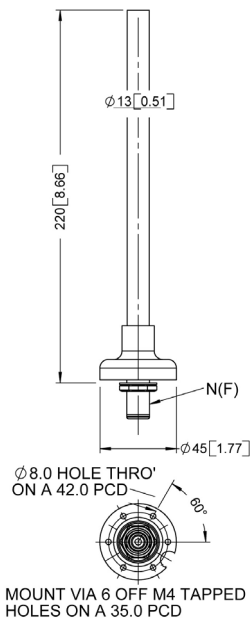
Omni antennas for COFDM



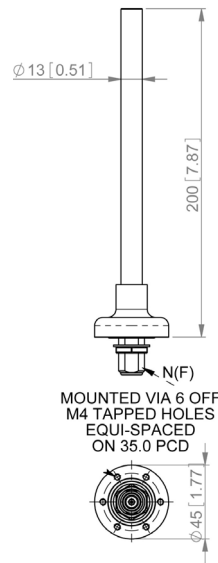
Cobham Antenna Systems
Microwave Antennas

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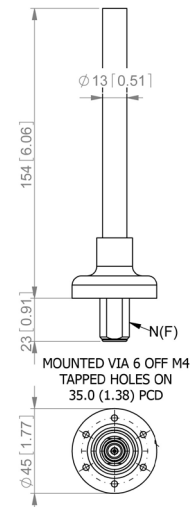
EVD2-1400-D1/1248



EVD2- 2.3V/1639



OA4-4.4-5.8V/1662



| ELECTRICAL | EVD2-1400-D1/1248 | EVD2- 2.3V/1639 | OA4-4.4-5.8V/1662 |
|------------------------|-------------------|-----------------|-------------------|
| Frequency GHz | 1.35 - 1.45 | 2.2 - 2.4 | 4.4 - 5.8 |
| Gain dBi | 2 | 2 | 4 |
| Polarisation | Vertical | Vertical | Vertical |
| Beamwidth * | 360 az x 17 el | 360 az x 80 el | 360 az x 33 el |
| Cross Polar dB | >20 | 15 | 20 |
| VSWR | 2:1 | 2:1 | <2:1 |
| Power rating W | 10 | 25 | 20 |
| Front to back dB | N/A | N/A | N/A |
| MECHANICAL | | | |
| Radome | Matt black | Matt black | Matt black |
| Weight kg | 0.210 | 0.205 | 0.106 |
| Temperature °C | -20 to +50 | -20 to +50 | -40 to +60 |
| Wind loading kg@100mph | 0.56 | 0.357 | N/A |
| Dimensions mm | 220x45 ϕ | 200x45 ϕ | 154x45 dia |

Omni
Issue1 2009-05
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European Antennas Ltd trading as Cobham Antenna Systems

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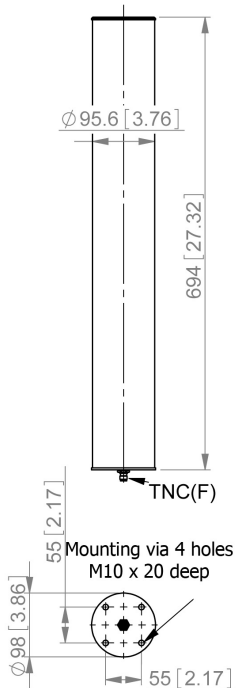
Sector antennas for COFDM

COBHAM

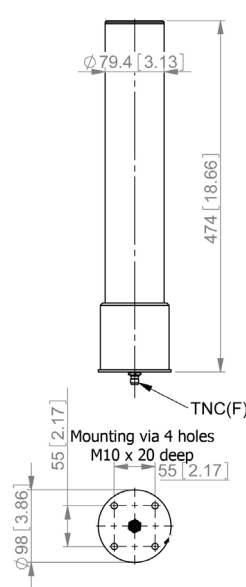
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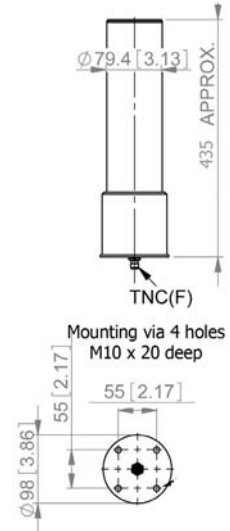
SA11-100-1.3V/1607



SA11-100-2.4V/1633



SA12-120-4.8V/1659



| ELECTRICAL | SA11-100-1.3V/1607 | SA11-100-2.4V/1633 | SA12-120-4.8V/1659 |
|------------------------|--------------------|--------------------|--------------------|
| Frequency GHz | 1.15 - 1.4 | 2.0 - 2.7 | 4.4 - 5.10 |
| Gain dBi | 10.5 | 11 | 12 |
| Polarisation | Vertical | Vertical | Vertical |
| Beamwidth ° | 108 az x 24 el | 100 x 24 | 120 x 12 |
| Cross Polar dB | >25 | >20 | >20 |
| VSWR | 1.5:1 | 2:1 | 1.5:1 |
| Power rating W | 50 | 50 | 50 |
| Front to back dB | >15 | >20 | >20 |
| MECHANICAL | | | |
| Radome | Matt black | Matt black | Matt black |
| Weight kg | 1.5 | 1.3 | 1.3 |
| Temperature °C | -40 to +60 | -40 to +60 | -40 to +60 |
| Wind loading kg@100mph | 10 | 8.5 | 8.5 |
| Dimensions mm | 694x95.6 ϕ | 474x98 ϕ | 435x98 ϕ |

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