

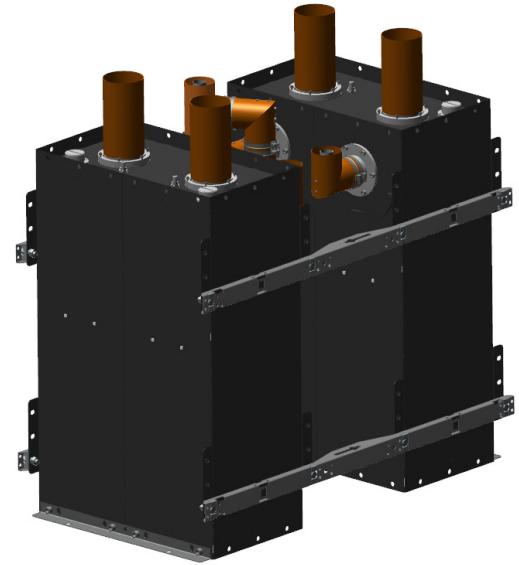
# FM Starpoint Combiner

32 kW, 2 Pole

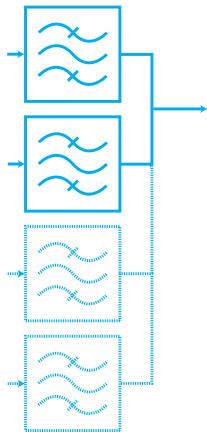
BAND II

10  
year  
GUARANTEE

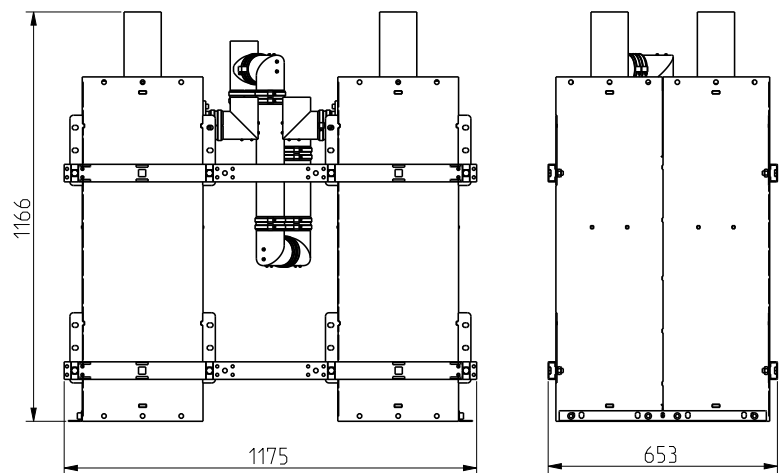
| SPECIFICATIONS          | 350 mm Series                         | Option                               |
|-------------------------|---------------------------------------|--------------------------------------|
| FREQUENCY               | 87 - 108 MHz                          |                                      |
| STANDARD ORDER          | 2 Poles                               | with temperature compensation        |
| APPLICATION             | FM combining & Spurious supress       |                                      |
| IMPEDANCE               | 50 Ohm                                |                                      |
| NB RETURN LOSS (VSWR)   | >26 dB (1.1)                          |                                      |
| NB INPUT CONNECTOR      | 3 1/8" unflange                       | 4 1/2" unflange                      |
| OUTPUT CONNECTOR        | 3 1/8" unflange                       | 4 1/2" unflange                      |
| TEMPERATURE STABILITY   | ≤ 3 kHz / °C<br>(without temp. comp.) | ≤ 0.5 kHz / °C<br>(with temp. comp.) |
| MAX PRODUCT TEMPERATURE | 70 °C                                 |                                      |
| ENVIROMENTAL CONDITION  | 0 to 70 °C IP40                       |                                      |



| DIMENSIONS AND WEIGHT |                         |
|-----------------------|-------------------------|
| INDICATIVE DIMENSIONS | 1175 x 653 x 1166 mm    |
| L x W x H             | (46.3 x 25.7 x 45.9 in) |
| STANDARD FRAME        | Stand alone             |
| COLOUR                | Black and aluminium     |



**Article structure:**  
**ARTICLE: SP22C35A-0P33-2**  
**SP** = Combiner Type  
**2** = Frequency band  
**2** = Number of poles  
**C** = Cavity based  
**35** = Cavity size  
**A** = Version  
 A = without temp. comp. B = with temp. comp.  
**0** = Number of cross coupling  
 0 = without  
**P** = Coating  
 P = blackpainted  
**3** = Narrowband connection  
 3 = 3 1/8" unflange, 4 = 4 1/2" unflange  
**3** = Output connection  
 3 = 3 1/8" unflange, 4 = 4 1/2" unflange  
**2** = Number of inputs



Example of design, may be changed depending on channel allocation and No of inputs.  
 Subjected to change without prior notice.

| ARTICLE                  | SP22C35x-0Pxx-2  |         |         |         |         | SP22C35x-0Pxx-3   |         |         |         |         | SP22C35x-0Pxx-4   |         |         |         |         |
|--------------------------|------------------|---------|---------|---------|---------|-------------------|---------|---------|---------|---------|-------------------|---------|---------|---------|---------|
| NUMER OF INPUTS          | 2                |         |         |         |         | 3                 |         |         |         |         | 4                 |         |         |         |         |
| MIN CHANNEL SPACING      | 6.0 MHz          | 5.0 MHz | 4.0 MHz | 3.0 MHz | 2.2 MHz | 6.0 MHz           | 5.0 MHz | 4.0 MHz | 3.0 MHz | 2.2 MHz | 6.0 MHz           | 5.0 MHz | 4.0 MHz | 3.0 MHz | 2.2 MHz |
| MAX INPUT POWER / INPUT  | 32 kW            | 24 kW   | 20 kW   | 16 kW   | 11 kW   | 32 kW             | 24 kW   | 20 kW   | 16 kW   | 11 kW   | 32 kW             | 24 kW   | 20 kW   | 16 kW   | 11 kW   |
| INSERTION LOSS (dB)      |                  |         |         |         |         |                   |         |         |         |         |                   |         |         |         |         |
| Centre frequency         | <0.1             | <0.1    | <0.2    | <0.2    | <0.3    | <0.2              | <0.2    | <0.2    | <0.2    | <0.3    | <0.2              | <0.2    | <0.3    | <0.3    | <0.4    |
| ±150 kHz                 | <0.1             | <0.2    | <0.2    | <0.2    | <0.4    | <0.2              | <0.2    | <0.2    | <0.3    | <0.4    | <0.2              | <0.3    | <0.3    | <0.3    | <0.5    |
| ISOLATION BETWEEN INPUTS |                  |         |         |         |         |                   |         |         |         |         |                   |         |         |         |         |
| Input frequency spacing  |                  |         |         |         |         |                   |         |         |         |         |                   |         |         |         |         |
| ±2.2 MHz                 | -                | -       | -       | -       | >30 dB  | -                 | -       | -       | -       | >30 dB  | -                 | -       | -       | -       | >30 dB  |
| ±3.0 MHz                 | -                | -       | -       | >30 dB  | >35 dB  | -                 | -       | -       | >30 dB  | >35 dB  | -                 | -       | -       | >30 dB  | >35 dB  |
| ±4.0 MHz                 | -                | -       | >30 dB  | >35 dB  | >40 dB  | -                 | -       | >30 dB  | >35 dB  | >40 dB  | -                 | -       | >30 dB  | >35 dB  | >40 dB  |
| ±5.0 MHz                 | -                | >30 dB  | >35 dB  | >35 dB  | >40 dB  | -                 | >30 dB  | >35 dB  | >35 dB  | >40 dB  | -                 | >30 dB  | >35 dB  | >35 dB  | >40 dB  |
| ±6.0 MHz                 | >30 dB           | >35 dB  | >35 dB  | >40 dB  | >45 dB  | >30 dB            | >35 dB  | >35 dB  | >40 dB  | >45 dB  | >30 dB            | >35 dB  | >35 dB  | >40 dB  | >45 dB  |
| ±8.0 MHz                 | >35 dB           | >40 dB  | >40 dB  | >45 dB  | >50 dB  | >35 dB            | >40 dB  | >40 dB  | >45 dB  | >50 dB  | >35 dB            | >40 dB  | >40 dB  | >45 dB  | >50 dB  |
| WEIGHT                   | 80 kg (176.4 lb) |         |         |         |         | 120 kg (264.6 lb) |         |         |         |         | 160 kg (352.7 lb) |         |         |         |         |

\* Data in table is typical data. at 100 MHz. The combiner can be tuned for other specifications or bandwidth. Please contact us for a designed specification.

\*\* All average power values and technical data refer to an ambient temperature of +20 °C with normal airflow. The product can have a maximum surface temperature of +70 °C. Maximum power capacity may be lower depending on channel allocation. Data are subjected to change without prior notice.