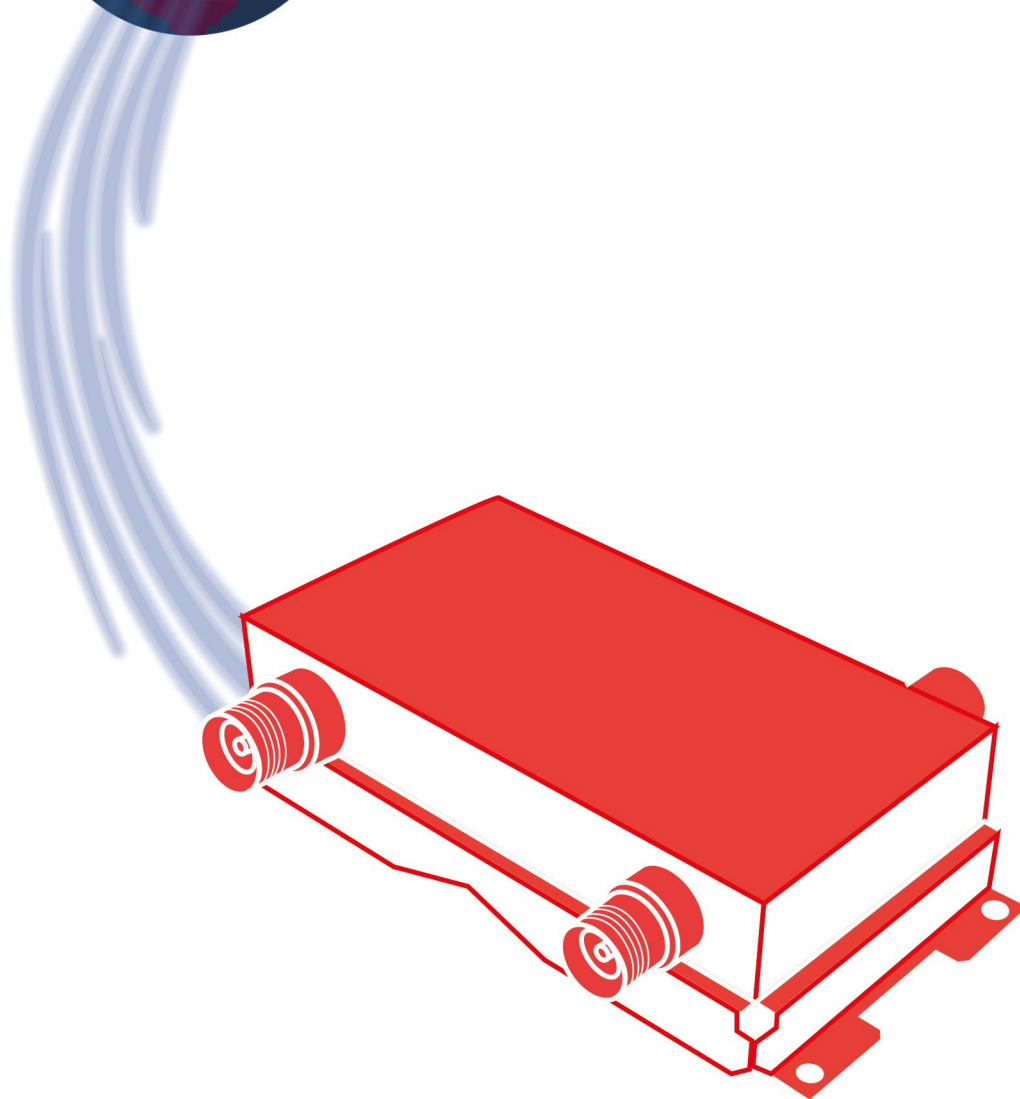


# COUPLERS SPLITTERS



=> [Search by Part Number](#)



## For Telecom Equipments Split or Combination

- ⇒ Robust Stripline Construction
- ⇒ Short Delivery Service
- ⇒ 100% RF Controlled
- ⇒ «5G ready» 4.3-10 Products
- ⇒ Low PIM Products
- ⇒ Broadband Products
- ⇒ Outdoor Use

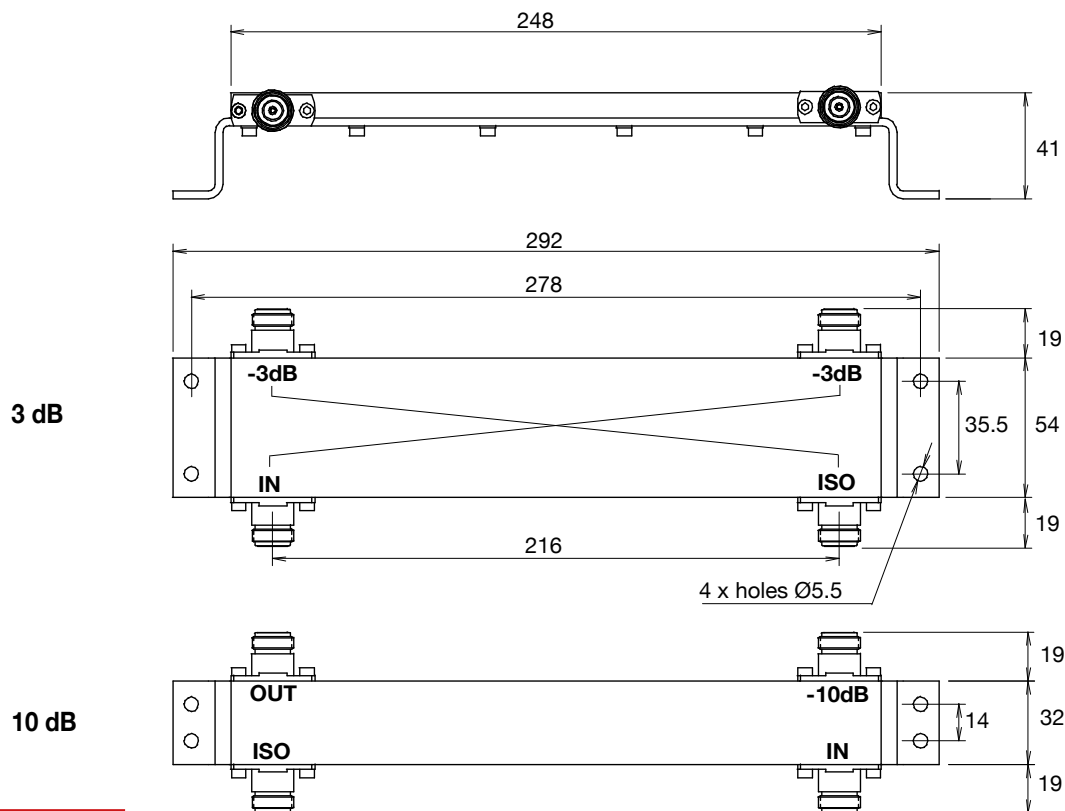
|                          |   |                                           |    |
|--------------------------|---|-------------------------------------------|----|
| 150-2000 MHz Hybrid      | 3 | 698-3800 MHz Hybrid                       | 10 |
| 350-600 MHz Hybrid       | 4 | 698-3800 MHz Power Splitter               | 11 |
| 380 - 900 MHz Hybrid     | 5 | 698-3800 MHz Splitter                     | 12 |
| 698-2700 MHz Directional | 6 | Broadband Resistive Power Splitter 2 ways | 13 |
| 698-2700 MHz Hybrid      | 7 | Impedance Matcher                         | 14 |
| 698-2700 MHz Hybrid      | 8 | Search by Part Number                     | 15 |
| 698-3800 MHz Directional | 9 |                                           |    |



# 150-2000 MHz Hybrid



|                   |                               |
|-------------------|-------------------------------|
| Frequency         | 150-2000 MHz                  |
| Impedance         | 50 $\Omega$                   |
| Temperature range | - 30 to + 70°C                |
| Average power     | 100 W                         |
| Protection level  | IP 44                         |
| Color             | White RAL 9002                |
| Weight            | 590 g (3 dB)<br>395 g (10 dB) |



Dimensions in mm

[Return to Search by Part Number](#)

| P/N (Nf)     | Coupling (dB) | Frequency (MHz) | $\Delta$ Coupling (dB) | Isolation (dB) | Max VSWR |
|--------------|---------------|-----------------|------------------------|----------------|----------|
| 14 740 031 C | 3             | 150-2000        | $\pm 1.5$              | $\geq 14^*$    | 1.5*     |
| 14 740 101 C | 10            | 150-2000        | $\pm 1.5$              | $\geq 14^{**}$ | 1.5**    |

\* 300-500 MHz: Isolation  $\geq 18$ dB, Max VSWR 1.3

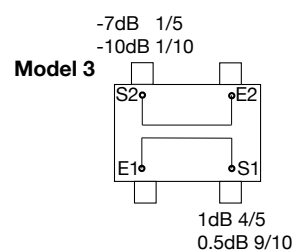
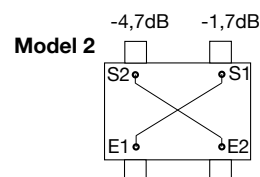
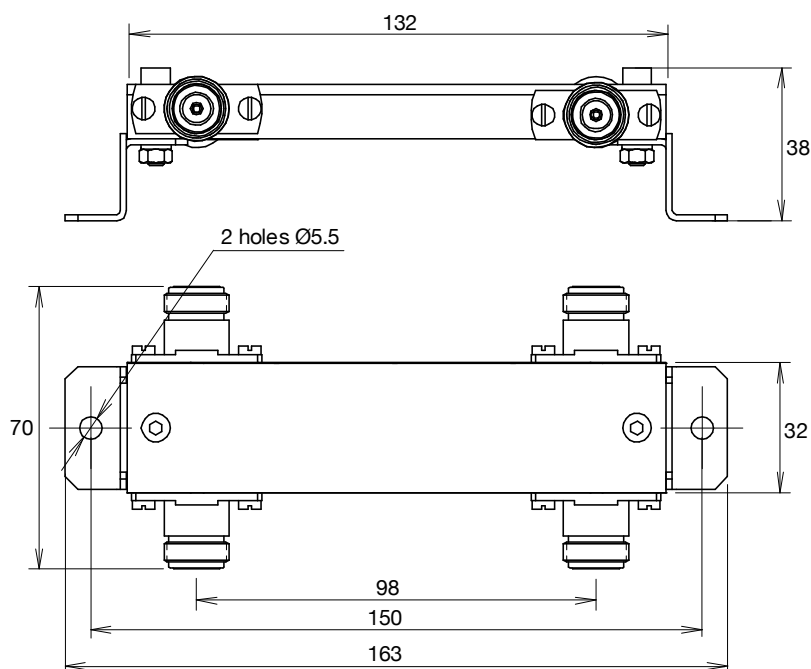
\*\* 300-500 MHz: Isolation  $\geq 20$ dB, Max VSWR 1.3



# 350-600 MHz Hybrid



|                   |                |
|-------------------|----------------|
| Frequency         | 350-600 MHz    |
| Impedance         | 50 $\Omega$    |
| Temperature range | - 30 to + 70°C |
| Average power     | 100 W          |
| Protection level  | IP 61          |
| Color             | White RAL 9002 |
| Weight            | 290 g          |



Dimensions in mm

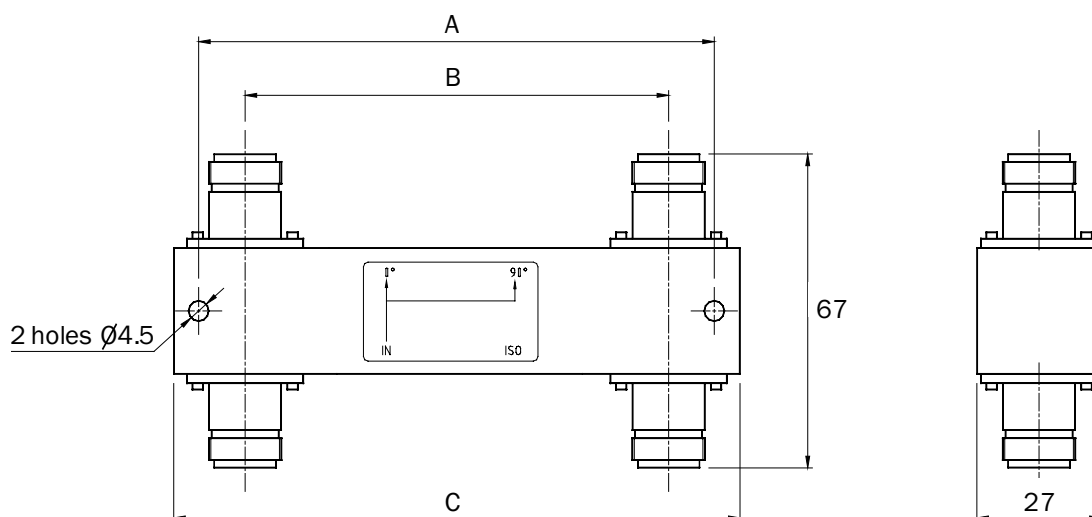
[Return to Search by Part Number](#)

| P/N<br>(Nf)  | Coupling<br>(dB) | Frequency<br>(MHz) | $\Delta$ Coupling<br>(dB) | Isolation<br>(dB) | Max<br>VSWR | Model |
|--------------|------------------|--------------------|---------------------------|-------------------|-------------|-------|
| 14 850 031 D | 3                | 350-600            | $\pm 0.5$                 | $\geq 33$         | 1.08        | 2     |
| 14 850 047 B | 4.7              | 350-600            | $\pm 0.5$                 | $\geq 29$         | 1.1         | 2     |
| 14 850 061 B | 6                | 350-600            | $\pm 0.5$                 | $\geq 29$         | 1.1         | 3     |
| 14 850 101 F | 10               | 350-600            | $\pm 1.1$                 | $\geq 35$         | 1.08        | 3     |

# 380 - 900 MHz Hybrid



|                   |                  |
|-------------------|------------------|
| Impedance         | 50 $\Omega$      |
| Phase variation   | $\leq 1.5^\circ$ |
| Insertion loss    | $\leq 0.3$ dB    |
| Temperature range | - 30 to + 70°C   |



Dimensions in mm

[Return to Search by Part Number](#)

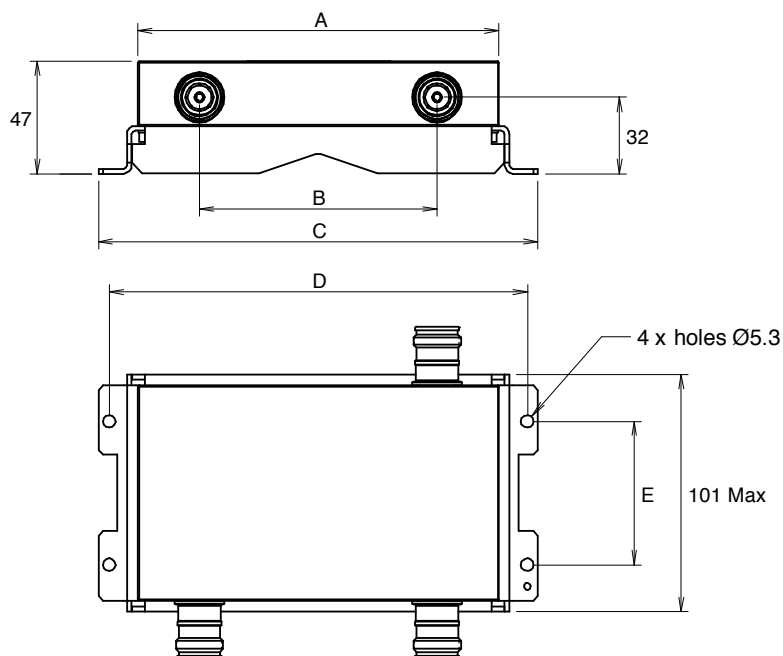
| P/N (Nf) | Coupling (dB) | Frequency (MHz) | $\Delta$ Coupling (dB) | Isolation (dB) | Max VSWR | Power (W @ 25°C) | Connector | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|----------|---------------|-----------------|------------------------|----------------|----------|------------------|-----------|--------|--------|--------|--------|--------|
| 29-0059  | 3             | 380-395         | $\pm 0.5$              | $\geq 33$      | 1.1      | 500              | N f       | 120    | 92     | 135    | 70     | 34     |
| 29-0060  | 20            | 380-395         | $\pm 0.7$              | $\geq 50$      | 1.1      | 500              | N f       | 120    | 92     | 135    | 70     | 34     |
| 29-3388  | 3             | 430-860         | $\pm 0.5$              | $\geq 26$      | 1.1      | 500              | N f       | 97     | 77     | 108    | 67     | 27     |
| 29-0024  | 3             | 450-900         | $\pm 0.5$              | $\geq 26$      | 1.1      | 300              | N f       | 93     | 73     | 104    | 67     | 27     |
| 29-0054  | 6             | 470-860         | $\pm 0.5$              | $\geq 30$      | 1.1      | 500              | N f       | 93     | 73     | 104    | 67     | 27     |
| 29-0055  | 6             | 470-860         | $\pm 0.5$              | $\geq 30$      | 1.1      | 1000             | 7-16 f    | 93     | 93     | 121    | 74     | 37     |
| 29-0023  | 3             | 900-1800        | $\pm 0.7$              | $\geq 23$      | 1.15     | 50               | N f       | 59     | 39     | 70     | 67     | 27     |



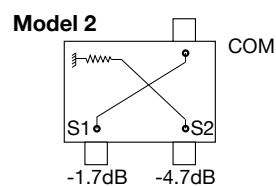
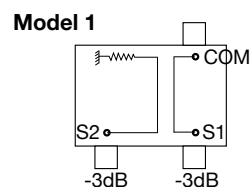
# 698-2700 MHz Directional



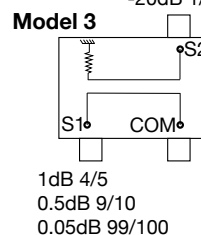
|                               |                                           |
|-------------------------------|-------------------------------------------|
| Frequency                     | 698-2700 MHz                              |
| Impedance                     | 50 $\Omega$                               |
| Intermodulation IM3           | $\leq -153$ dBc for 2 carriers at +43 dBm |
| Temperature range             | -30 to +70°C                              |
| Average power                 |                                           |
| - If used as a combiner (2→1) | 40 W                                      |
| - If used as a divider (1→2)  | 80 W                                      |
| Protection level              | IP 67                                     |
| Weight                        | 1.5 kg                                    |



Dimensions in mm



-7dB 1/5  
-10dB 1/10  
-20dB 1/100



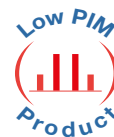
[Return to Search by Part Number](#)

| P/N<br>(4.3-10f) | P/N<br>(7-16f) | Coupling<br>(dB) | Δ Coupling*<br>(dB) | Isolation<br>(dB) | Max<br>VSWR | Dimensions (mm) |     |     |     |    | Model |
|------------------|----------------|------------------|---------------------|-------------------|-------------|-----------------|-----|-----|-----|----|-------|
| A                | B              | C                | D                   | E                 |             |                 |     |     |     |    |       |
| 02 300 211       | 02 300 201     | 3                | ± 0.9               | ≥ 19              | 1.3         | 166             | 114 | 199 | 190 | 80 | 1     |
| 02 300 212       | 02 300 202     | 4.7              | ± 0.5               | ≥ 20              | 1.25        | 152             | 100 | 185 | 176 | 60 | 2     |
| 02 300 213       | 02 300 203     | 7                | ± 0.6               | ≥ 20              | 1.25        | 152             | 100 | 185 | 176 | 60 | 3     |
| 02 300 214       | 02 300 204     | 10               | ± 0.5               | ≥ 23              | 1.25        | 152             | 100 | 185 | 176 | 60 | 3     |
| 02 300 216       | 02 300 206     | 20               | ± 1.2               | ≥ 35              | 1.25        | 152             | 100 | 185 | 176 | 60 | 3     |

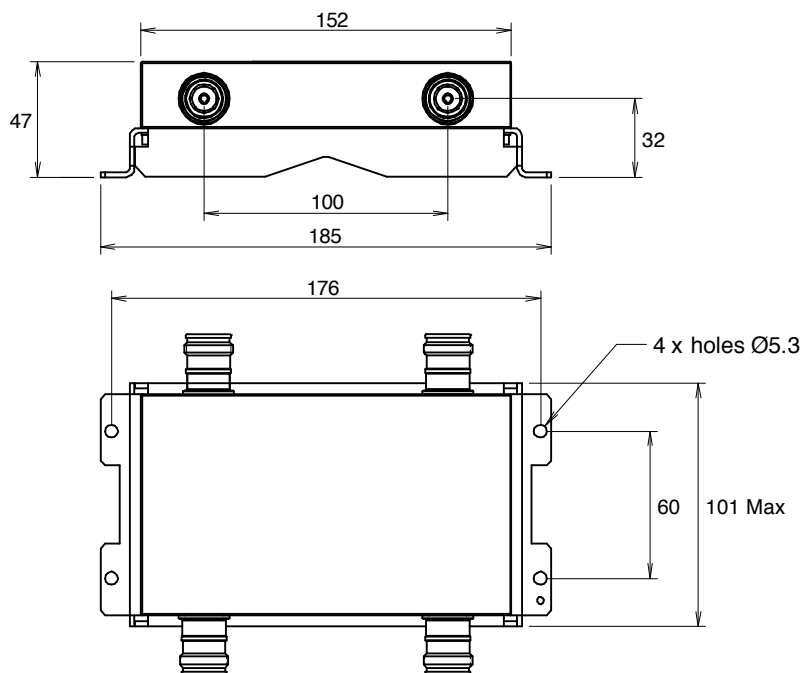
Option: Color white RAL 9002

\*Direct line COM -> S1, Coupled line COM -> S2

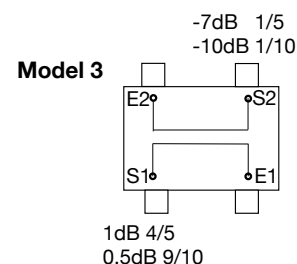
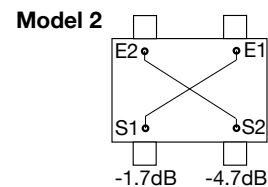
# 698-2700 MHz Hybrid



|                               |                                           |
|-------------------------------|-------------------------------------------|
| Frequency                     | 698-2700 MHz                              |
| Impedance                     | 50 $\Omega$                               |
| Intermodulation IM3           | $\leq -153$ dBc for 2 carriers at +43 dBm |
| Temperature range             | -30 to +70°C                              |
| Average power                 |                                           |
| - If used as a combiner (2→1) | 40 W                                      |
| - If used as a divider (1→2)  | 80 W                                      |
| Protection level              | IP 67                                     |
| Connector                     | 7-16 f                                    |
| Weight                        | 1.5 kg                                    |



Dimensions in mm



[Return to Search by Part Number](#)

| P/N<br>(7-16f) | Coupling<br>(dB) | $\Delta$ Coupling*<br>(dB) | Isolation<br>(dB) | Max<br>VSWR | Model |
|----------------|------------------|----------------------------|-------------------|-------------|-------|
| 02 300 207     | 4.7              | $\pm 0.5$                  | $\geq 20$         | 1.25        | 2     |
| 02 300 209     | 7                | $\pm 0.6$                  | $\geq 20$         | 1.25        | 3     |
| 02 300 210     | 10               | $\pm 0.5$                  | $\geq 23$         | 1.25        | 3     |

Option: Color white RAL 9002

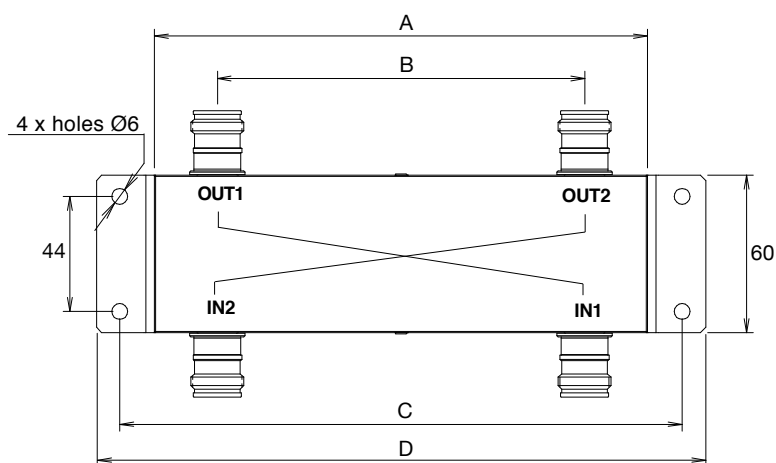
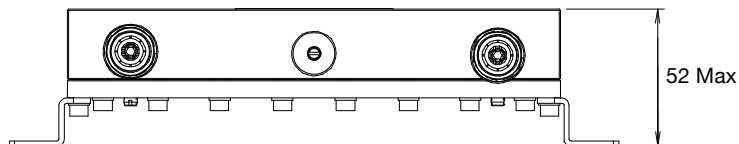
\*Direct line E1 -> S1, Coupled line E1 -> S2



# 698-2700 MHz Hybrid



|                               |                                           |
|-------------------------------|-------------------------------------------|
| Frequency                     | 698-2700 MHz                              |
| Impedance                     | 50 $\Omega$                               |
| Intermodulation IM3           | $\leq -160$ dBc for 2 carriers at +43 dBm |
| Temperature range             | - 30 to +70°C                             |
| Average power                 |                                           |
| - If used as a combiner (2→1) | 100 W                                     |
| - If used as a divider (1→2)  | 200 W                                     |
| Protection level              | IP 65                                     |
| Color                         | White RAL 9002                            |
| Weight                        | 1.3 kg                                    |



Dimensions in mm

[Return to Search by Part Number](#)

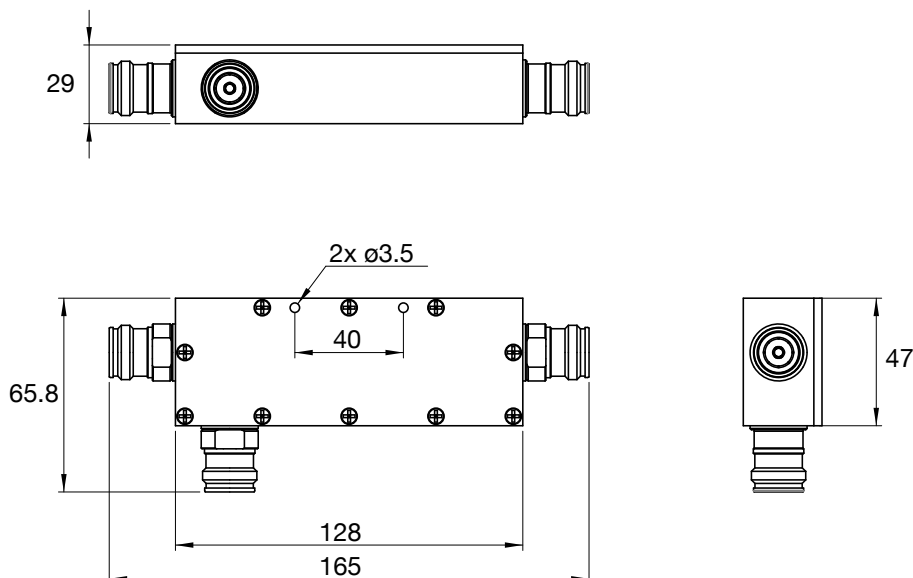
| P/N<br>(4.3-10f) | P/N<br>(7-16f) | Coupling<br>(dB) | Frequency<br>(MHz) | Δ Coupling<br>(dB) | Isolation<br>(dB) | Max<br>VSWR | Dimensions (mm) |     |     |     |
|------------------|----------------|------------------|--------------------|--------------------|-------------------|-------------|-----------------|-----|-----|-----|
|                  |                |                  |                    |                    |                   |             | A               | B   | C   | D   |
| 14 900 179       | 14 900 169     | 3                | 698-960            | ± 0.5              | ≥ 29              | 1.25        | 131             | 83  | 157 | 176 |
| 14 900 180       | 14 900 170     | 4.7              | 698-960            | ± 0.5              | ≥ 25              | 1.25        | 131             | 83  | 157 | 176 |
| 14 900 172       | 14 900 162     | 3                | 698-2700           | ± 0.9              | ≥ 20              | 1.25        | 188             | 140 | 214 | 233 |
| 14 900 173       | 14 900 163     | 3                | 1710-2700          | ± 0.8              | ≥ 20              | 1.25        | 188             | 140 | 214 | 233 |



# 698-3800 MHz Directional



|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Frequency           | 698-3800 MHz                                            |
| Impedance           | 50 $\Omega$                                             |
| Intermodulation IM3 | $\leq -153$ dBc for 2 carriers at +43 dBm (698-2700MHz) |
| Temperature range   | - 30 to + 70°C                                          |
| Average power       | 200 W                                                   |
| Protection level    | IP 65                                                   |
| Weight              | 600 g                                                   |



Dimensions in mm

[Return to Search by Part Number](#)

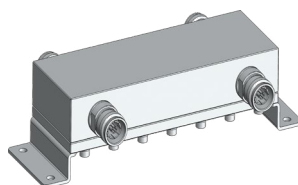
| P/N<br>(4.3-10f) | Coupling<br>(dB) | $\Delta$ Coupling<br>(dB) | Isolation<br>(dB) | Max<br>VSWR |
|------------------|------------------|---------------------------|-------------------|-------------|
| 29-0110          | 3                | $\pm 1.3$                 | $\geq 20$         | 1.3         |
| 29-0111          | 5                | $\pm 1.3$                 | $\geq 20$         | 1.3         |
| 29-0112          | 7                | $\pm 1.3$                 | $\geq 22$         | 1.3         |
| 29-0113          | 10               | $\pm 1.6$                 | $\geq 25$         | 1.3         |
| 29-0114          | 13               | $\pm 1.6$                 | $\geq 28$         | 1.3         |
| 29-0115          | 15               | $\pm 1.7$                 | $\geq 30$         | 1.3         |
| 29-0116          | 20               | $\pm 1.8$                 | $\geq 35$         | 1.3         |
| 29-0124          | 30               | $\pm 2$                   | $\geq 43$         | 1.3         |

Option: Color white RAL 9002, Fixation

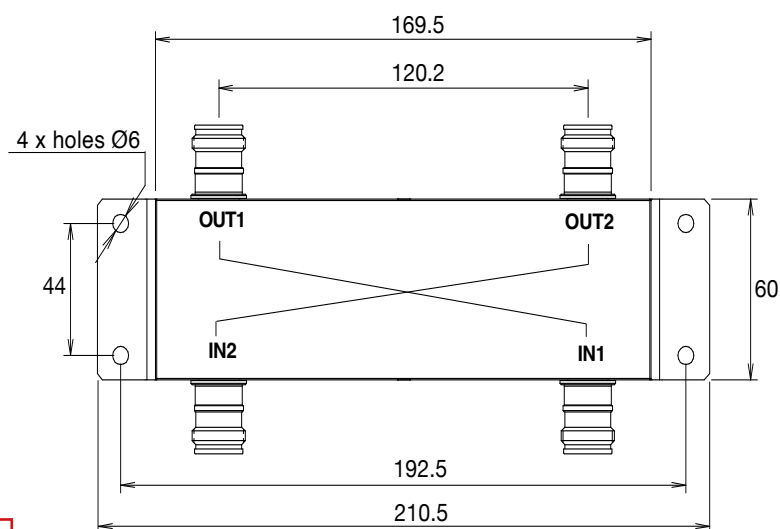
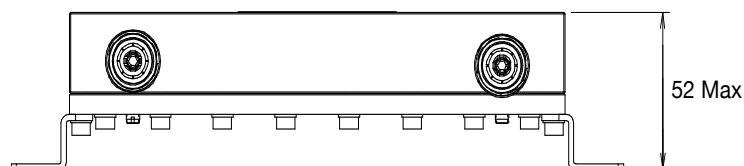
Couplers - Splitters



# 698-3800 MHz Hybrid



|                      |                                           |
|----------------------|-------------------------------------------|
| Frequency            | 698-3800 MHz                              |
| Impedance            | 50 $\Omega$                               |
| Intermodulation IM3  | $\leq -153$ dBc for 2 carriers at +43 dBm |
| Temperature range    | - 30 to +70°C                             |
| Average power @ 25°C | 200 W                                     |
| Protection level     | IP 65                                     |
| Weight               | 1.1 kg                                    |



Dimensions in mm

[Return to Search by Part Number](#)

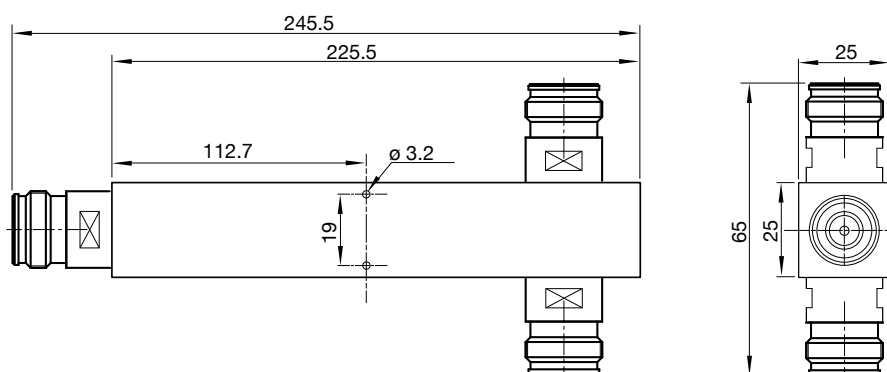
| P/N<br>(4.3-10f) | P/N<br>(7-16f) | Coupling<br>(dB) | Frequency<br>(MHz) | $\Delta$ Coupling<br>(dB) | Isolation<br>(dB) | Max<br>VSWR |
|------------------|----------------|------------------|--------------------|---------------------------|-------------------|-------------|
| 14 900 272       | 14 900 262     | 3                | 698-3800           | $\pm 0.8$                 | $\geq 20$         | 1.25        |

# 698-3800 MHz Power Splitter

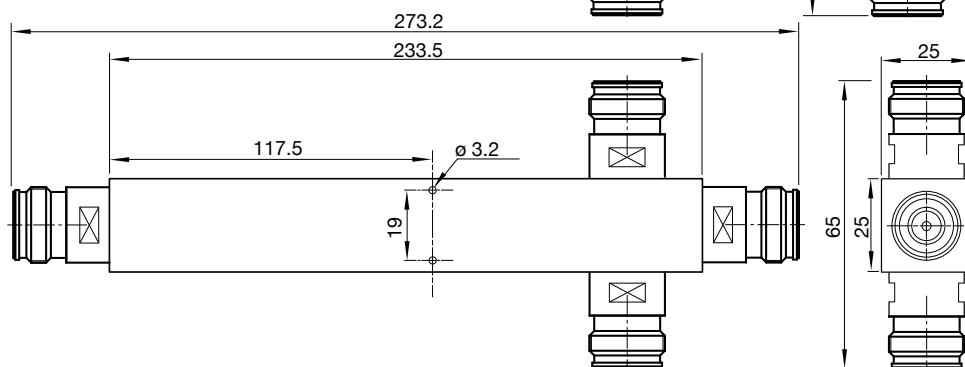


|                      |                                           |
|----------------------|-------------------------------------------|
| Frequency            | 698-3800 MHz                              |
| Impedance            | 50 $\Omega$                               |
| Intermodulation IM3  | $\leq -160$ dBc for 2 carriers at +43 dBm |
| Temperature range    | - 30 to +70°C                             |
| Average power @ 25°C | 300 W                                     |
| Connectors           | 4.3-10 f                                  |
| Protection level     | IP 65                                     |

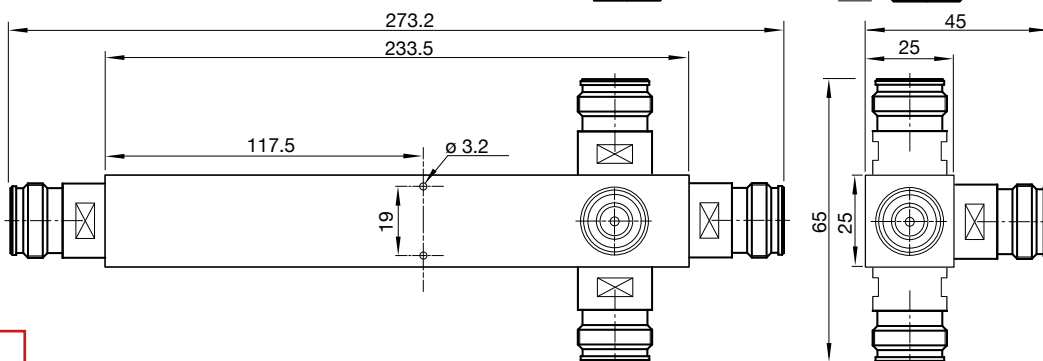
**2 Ways**



**3 Ways**



**4 Ways**



Dimensions in mm

[Return to Search by Part Number](#)

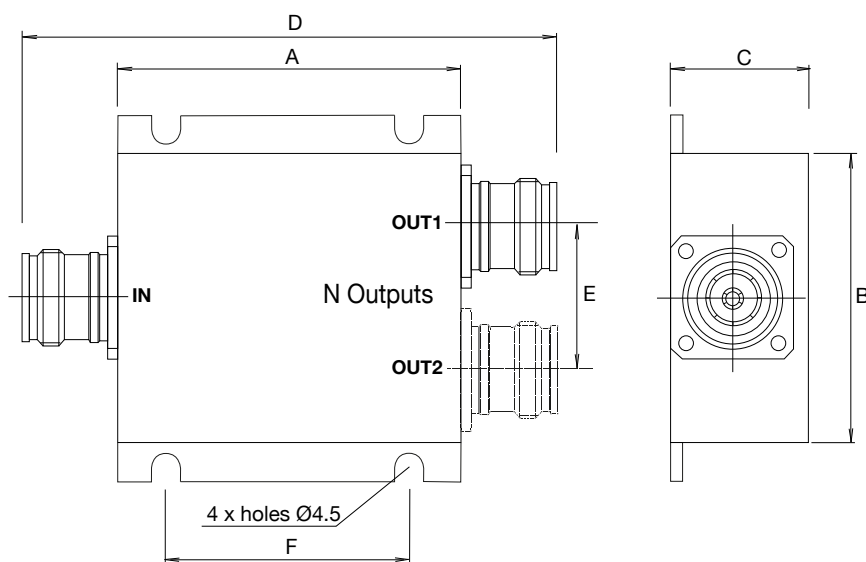
| P/N<br>(4.3-10 f) | Coupling<br>(dB) | Nb of<br>ways | Frequency<br>(MHz) | Insertion loss<br>(dB) | Max<br>VSWR |
|-------------------|------------------|---------------|--------------------|------------------------|-------------|
| 29-0119           | 3                | 2             | 698-3800           | <0.4                   | 1.25        |
| 29-0120           | 4.8              | 3             | 698-3800           | <0.6                   | 1.25        |
| 29-0121           | 6                | 4             | 698-3800           | <0.6                   | 1.25        |



# 698-3800 MHz Splitter



|                     |                                           |
|---------------------|-------------------------------------------|
| Frequency           | 698-3800 MHz                              |
| Impedance           | 50 $\Omega$                               |
| Intermodulation IM3 | $\leq -153$ dBc for 2 carriers at +43 dBm |
| Temperature range   | - 30 to +70°C                             |
| Average power       | 50 W                                      |
| Connector           | N f                                       |
| Protection level    | IP 65                                     |

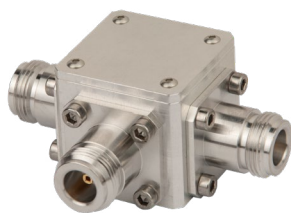


Dimensions in mm

[Return to Search by Part Number](#)

| P/N (Nf) | Split loss (dB) | Frequency (MHz) | Insertion loss (dB) | Isolation (dB) | Max VSWR | N Outputs | A  | B   | C  | D   | E  | F  |
|----------|-----------------|-----------------|---------------------|----------------|----------|-----------|----|-----|----|-----|----|----|
| 30-0128  | 3               | 698-3800        | $\leq 0.8$          | $\geq 20$      | 1.30     | 2         | 60 | 72  | 20 | 96  | 40 | 40 |
| 30-0129  | 4.8             | 698-3800        | $\leq 0.8$          | $\geq 18$      | 1.30     | 3         | 77 | 74  | 22 | 113 | 25 | 31 |
| 30-0130  | 6               | 698-3800        | $\leq 1.0$          | $\geq 18$      | 1.30     | 4         | 71 | 104 | 20 | 107 | 28 | 40 |

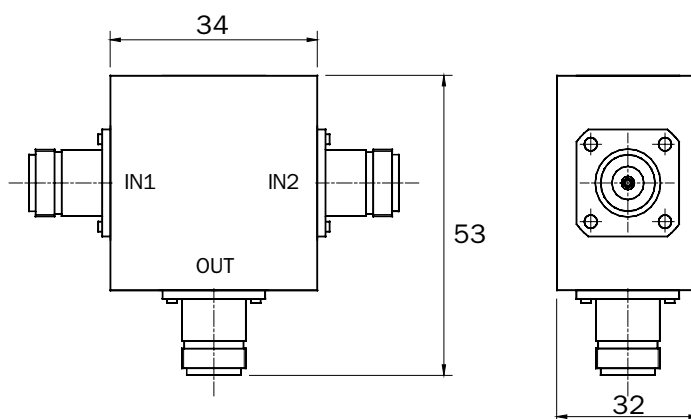
# Broadband Resistive Power Splitter 2 ways



Standards  
NF C 96-315  
MIL-DTL-3933



|                   |             |
|-------------------|-------------|
| Frequency         | DC – 3 GHz  |
| Impedance         | 50 $\Omega$ |
| Max VSWR          | $\leq 1.3$  |
| Insertion loss    | $\leq 6$ dB |
| Average power     | 5 W         |
| Temperature range | -25 to 85°C |
| Protection level  | IP 65       |
| Weight            | 310 g       |



Dimensions in mm

[Return to Search by Part Number](#)

| P/N     | Connector |
|---------|-----------|
| 16-0291 | N f       |

Couplers - Splitters



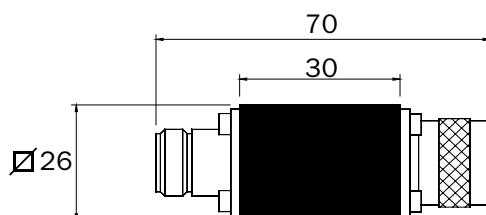
# Impedance Matcher



Standards  
NF C 96-315  
MIL-DTL-3933



|                   |                          |
|-------------------|--------------------------|
| Frequency         | DC – 1 GHz, DC - 1.8 GHz |
| Max VSWR          | $\leq 1.10$              |
| Temperature range | -55 to +125°C            |
| Average power     | 0.5 W                    |
| Weight            | 110 g                    |



Dimensions in mm

[Return to Search by Part Number](#)

| P/N     | Frequency (GHz) | Connector In | Connector Out | Impedance In ( $\Omega \pm 5\%$ ) | Impedance Out ( $\Omega \pm 5\%$ ) |
|---------|-----------------|--------------|---------------|-----------------------------------|------------------------------------|
| 15-3713 | 1               | N m          | N f           | 50                                | 75                                 |
| 15-4563 | 1               | N m          | N f           | 75                                | 50                                 |
| 15-4441 | 1.8             | N m          | N f           | 50                                | 75                                 |



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| <a href="#">02 300 202</a>   | P6   |
| <a href="#">02 300 203</a>   | P6   |
| <a href="#">02 300 204</a>   | P6   |
| <a href="#">02 300 206</a>   | P6   |
| <a href="#">02 300 207</a>   | P7   |
| <a href="#">02 300 209</a>   | P7   |
| <a href="#">02 300 210</a>   | P7   |
| <a href="#">02 300 211</a>   | P6   |
| <a href="#">02 300 212</a>   | P6   |
| <a href="#">02 300 213</a>   | P6   |
| <a href="#">02 300 214</a>   | P6   |
| <a href="#">02 300 216</a>   | P6   |
| <a href="#">14 740 031 C</a> | P3   |
| <a href="#">14 740 101 C</a> | P3   |
| <a href="#">14 850 031 D</a> | P4   |
| <a href="#">14 850 047 B</a> | P4   |
| <a href="#">14 850 061 B</a> | P4   |
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| <a href="#">15-4563</a>      | P14  |
| <a href="#">16-0291</a>      | P13  |

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| <a href="#">29-0024</a>    | P5   |
| <a href="#">29-0054</a>    | P5   |
| <a href="#">29-0055</a>    | P5   |
| <a href="#">29-0059</a>    | P5   |
| <a href="#">29-0060</a>    | P5   |
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