



2-input / 1-output 3dB hybrid combiner is used for same band systems combination. This hybrid combiner covers the frequency band of 694-4200MHz, with high isolation and low PIM performance.

### General Specifications

|                             |                         |
|-----------------------------|-------------------------|
| Product Type                | Low PIM Hybrid Combiner |
| Frequency Band              | 694-4200 MHz            |
| Input / Output              | 2-input / 1-output      |
| Intermodulation (3rd order) | ≤-150dBc@2×43dBm        |
| Connector Interface         | 7/16 DIN female         |

### Electrical Specifications

|                             |                    |
|-----------------------------|--------------------|
| Frequency Band              | 694-4200 MHz       |
| Return Loss                 | ≤-19.1 dB          |
| VSWR                        | ≤1.25              |
| Insertion Loss              | ≤0.2 dB            |
| Distribution Loss           | Nominal 3 dB       |
| Distribution Loss Ripple    | ±0.6 dB            |
| Isolation                   | ≥20 dB             |
| Intermodulation (3rd order) | ≤-150dBc@2×43dBm   |
| Power Handling              | 100 watts per port |
| Impedance                   | 50 ohms            |

### Material Specifications

|           |                                   |                                 |
|-----------|-----------------------------------|---------------------------------|
| Cavity    | Cavity Enclosure                  | Aluminum alloy                  |
|           | Cavity Outer Surface Treatment    | Conductive oxidation / Painting |
|           | Cavity Inner Surface Treatment    | Cu3Ag1                          |
|           | Inner Conductor                   | Aluminum alloy                  |
| Connector | Inner Conductor Surface Treatment | Ag1                             |
|           | Outer Conductor                   | Brass                           |
|           | Outer Conductor Surface Treatment | Tri-metal CuSnZn3               |
|           | Inner Conductor                   | Brass                           |
|           | Inner Conductor Surface Treatment | Ag1                             |
|           | Insulator                         | PTFE/TPX                        |
|           | Gasket                            | Silicon rubber                  |

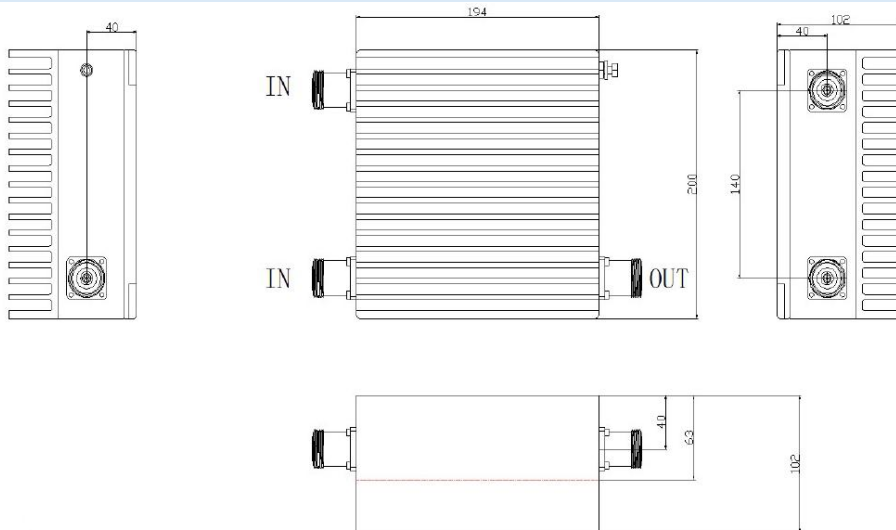
## Mechanical Specifications

|                 |                 |
|-----------------|-----------------|
| Dimension       | 200×194×102 mm  |
| Weight          | 5 kg            |
| Connectors Type | 7/16 DIN female |
| Mounting        | Bracket         |
| Packing         | 1 pcs in box    |

## Environmental Specifications

|                       |                  |
|-----------------------|------------------|
| Operating Temperature | -40 °C to +65 °C |
| Storage Temperature   | -45 °C to +85 °C |
| Relative Humidity     | 5% - 95%         |
| Application           | IP65             |

## Outline Drawing



## Regulatory Compliances

|               |           |
|---------------|-----------|
| ISO 9001:2015 | Compliant |
| ROHS          | Compliant |
| China RoHS    | Compliant |
| UK RoHS       | Compliant |
| REACH         | Compliant |
| EU/CE         | Compliant |

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