

Band IV/V (UHF) High Power 3dB Coupler

Product Description

The DC618E-HP is a 3dB directional high power coupler for use in the UHF TV band for transmitter and channel combining. In transmitter combining it is rated at 120 kW average power, while for channel combiners it is ideally suited to combine 2 x 40kW into an 80kW output. The device has two tandem-connected coupling sections catering for a combined 3.01dB coupling loss from 470 MHz to 700 MHz.

Features

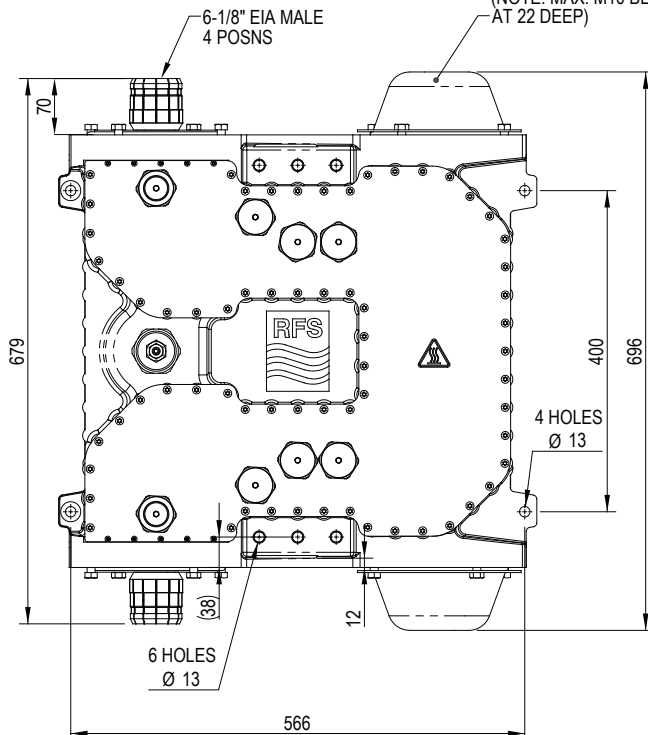
- Compact for easy integration into equipment.
- Very low insertion loss, (lowest for this size).
- Highest power rating for size/class.
- Two possible mounting configurations.
- For use in balanced combiner applications or transmitter power combining.
- Patented heat transfer feature.
- May be used as a stand-alone splitter.
- Flanged and unflanged adaptors available.



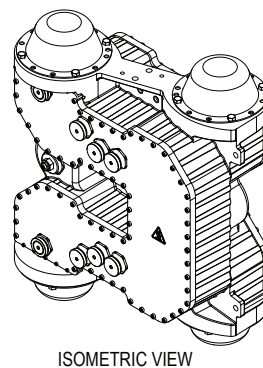
Specifications

	DC618E-HP
Model	DC618E-HP
Weight, kg (lb)	79 (175)
Dimensions, D x W x H mm (inches)	331 x 596 x 679 (13 x 23.5 x 26.7)
Colour	Black
Frequency Range, MHz	470-700
Output Power (Max), kW	80 (DTV) average @ 665 MHz with 15 dB PAR
Voltage Safety Factor	≥ 1.5 @ 40°C
Return Loss, dB (with 50 ohm load)	≥ 36 over operating channel ≥ 32 over operating frequency range
Power split amplitude, dB	-3.01 ± 0.25
Isolation, dB	≥ 32 over operating frequency range
Phase balance, ° Degree	-90 ± 1
Peak voltage rating kV at sea level	25 (with minimum 1.5 safety factor)
Connectors	6-1/8" EIA flanged male
Operating ambient temperature, ° Degree C	-5 to +55

SUPPLIED WITH DOME COVER.
SCREWS M10X35 (FOR EIA FLANGE)
SUPPLIED LOOSE IN PLASTIC BAG.
(NOTE: MAX. M10 BLIND THREAD IN BODY
AT 22 DEEP)



CAUTION:
HOT SURFACE
(LABELS ON TOP OF COUPLER)



ISOMETRIC VIEW

All information contained in the present brochure is subject to confirmation at time of ordering