

UHF MULTICOUPLER HU300-2

UHF 2 Way Splitter/Combiner Unit

This splitter/combiner unit is developed in Multicoupler structure, and uses striplines and transformer
It is composed of four “three broad band couplers”, in order to work on all UHF range.

- **Frequency Range:** 470 – 862 MHz
- **Structure:** 4way Splitter/Combiner Unit
- **Input/Output impedances** 50Ω
- **Isolated Output Ports**
- **Output Matching (Location Output Combiner):** >26 dB
- **Input Matching (Location Output Combiner):** >26 dB
- **Insertion Loss (Location Output Combiner):** <0.1 dB
- **Max. Amplitude Variation:** < ± 0.3 dB
- **Max. Phase Variation:** < ± 1 °
- **Decoupling between accesses:** > 26 dB
- **Max. Input Power 2 ways:** 2 x 250/ 2 x 750 W (CW)
- **Typical Output Power 4 ways:** $0.98 * \Sigma P_{in}$ (CW)
- **Coupling:** -33 to 53 (on any channel)
- **Combiner Output/Splitter outputs Decoupling:** >80 dB
- **Dimensions:** 19 Inch, 2HE, 490 (mm) Depth



UHF HYBRID MULTICOUPLER

Max Output Power	2 kW DTV / 3 kW ATV
Frequency Range	470 – 862 MHz
Isolation	> 30 dB
Max Output Power	2 kW DTV / 3 kW ATV
Enviromental Condition	-5 to +45 °C
Amplitude Unbalance	-3.01 ± 0.3 dB
Phase Balance	90° ± 1°
Return Loss	> 30 dB
Connectors	4 x 7-16 Female
Dimensions (mm)	Height: 49 Wide: 170 Depth: 102

UHF HYBRID MULTICOUPLER OPTIONS

C	N Female Connector
D	N Male Connector
F	7-16 Male Connector
G	EIA 7/8" Unflanged Conn.
H	EIA 7/8" Flanged Conn.
I	EIA 7/8" Plug Conn.
J	EIA 1+ 5/8" Unflanged Conn.
K	EIA 1+ 5/8" Flanged Conn.
O	Painted Black

Conctat Res-Ingenium, +39 0763 316333 Fax +39 0763316002- or visit www.res-ingenium.com for a complete listing.

UHF MULTICOUPLER HU300-2

UHF HYBRID SPLITTER

Frequency Range	470 – 862 MHz
Max Input Power	50 W RMS
Isolation	> 24 dB
Insertion Loss	< 0.7 dB (Over the theoretical -3.01 dB)
Return Loss	> 24 dB
Amplitude Balance	± 0.1 dB
Phase Balance	0° / -90° ± 1°
Enviromental Condition	-5 to +45 ° C
Connectors	3 SMA Female
Dimensions (mm)	Height: 15 Wide: 99 Depth: 111

UHF HYBRID SPLITTER OPTIONS

C	N Female Connector
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