

UHF MULTICOUPLER HU300-3

UHF 3 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
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- **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 3 ways:** 3 x 250W (CW)
- **Typical Output Power 3 ways:** $0.97 * \sum P_{in}$ (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	-4.77 ± 0.5 dB
Phase Balance	-180°/-90°/-90° ± 10 °
Return Loss	> 30 dB
Connectors	Inputs: 3 x 7-16 Female Loads: 2 x 7-16 Female Output: 1 x 7-16 Female
Dimensions (mm)	Height: 49 Wide: 304 Depth: 135

UHF HYBRID MULTICOUPLER OPTIONS

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.

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UHF MULTICOUPLER HU300-3

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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