

VHF CAVITY TRANSMITTER COMBINER CSG 3148174-4CTC

PARAMETERS	SPECIFICATIONS
Frequency Band	148 – 174 MHz
No. Of Channels	4
Power Per Channel (Max.)	125 Watt
Frequency Spacing (Min.)	300 KHz
Insertion Loss (Max.)	3.0 dB
Insertion Loss (Min.)	1.9 dB
Isolation Tx / Tx	90 dB
Isolation Ant / Tx	70 dB
Impedance	50 Ω
VSWR In / Out (Max.)	1.1:1 / 1.25: 1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30 – + 60 °C
Dimension Approx. (H x W x D)	826 x 483 x 153 mm
Weight Approx.	25.0 Kg



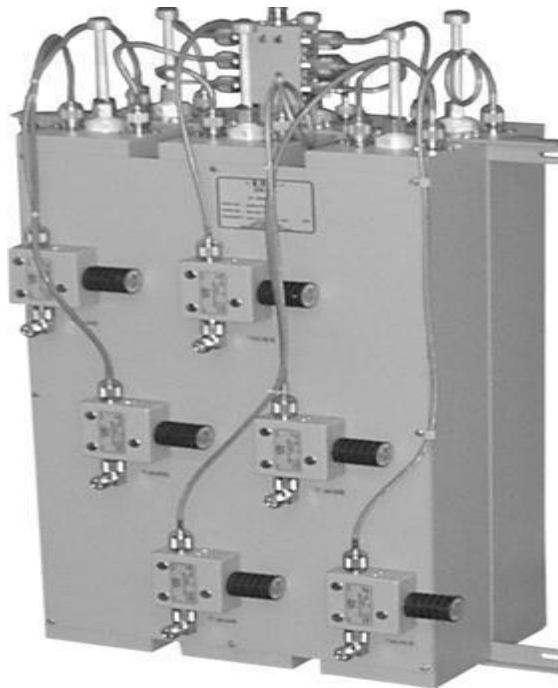
OPTIONAL: CAVITY TRANSMITTER COMBINER IN OTHER CAPACITIES

e.g 2, 3, 5, 6, 8 CHANNELS ARE AVAILABLE



VHF CAVITY TRANSMITTER COMBINER CSG 3148174-6CTC

PARAMETERS	SPECIFICATIONS
Frequency Band	148 – 174 MHz
No. of Channels	6
Power Per Channel (Max.)	125 Watt
Frequency Spacing (Min.)	300 KHz
Insertion Loss (Max.)	3.2 dB
Insertion Loss (Min.)	2.2dB
Isolation Tx / Tx	90 dB
Isolation Ant / Tx	70 dB
Impedance	50 Ω
VSWR In / Out (Max.)	1.1:1 / 1.25: 1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30 – + 60 °C
Dimension Approx. (H x W x D)	826 x 483 x 245 mm
Weight Approx.	37.2 Kg



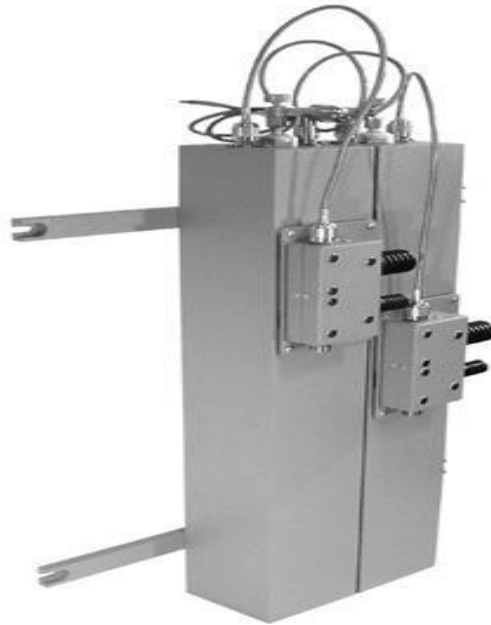
OPTIONAL: CAVITY TRANSMITTER COMBINER IN OTHER CAPACITIES

e.g 2,3,4,5 CHANNELS ARE AVAILABLE



VHF CAVITY TRANSMITTER COMBINER CSG 3148174-2CTC

PARAMETERS	SPECIFICATIONS
Frequency Band	148 – 174 MHz
No. Of Channels	2
Power Per Channel (Max.)	125 Watt
Frequency Spacing (Min.)	300 KHz
Insertion Loss (Max.)	2.8 dB
Insertion Loss (Min.)	1.7 dB
Isolation Tx / Tx	90 dB
Isolation Ant / Tx	70 dB
Impedance	50 Ω
VSWR In / Out (Max.)	1.1:1 / 1.25: 1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30 – + 60 °C
Dimension Approx. (H x W x D)	826 x 483 x 153 mm
Weight Approx.	13.2 Kg



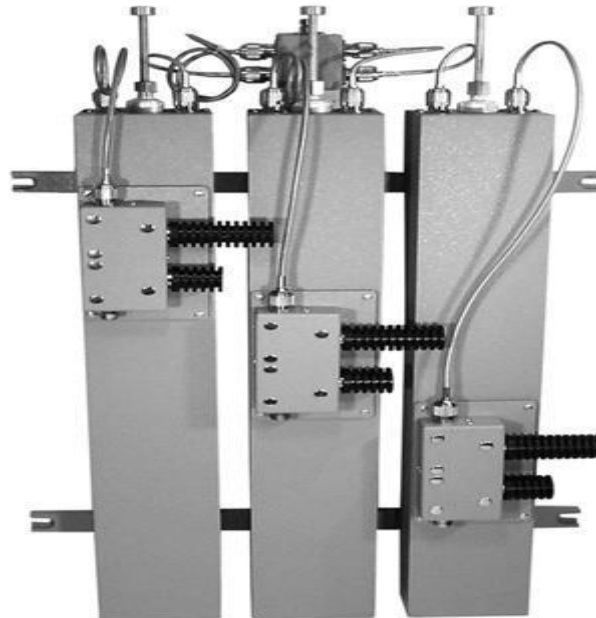
OPTIONAL: CAVITY TRANSMITTER COMBINER IN OTHER CAPACITIES

e.g. 3, 4, 5, 6, 8 CHANNELS ARE AVAILABLE



VHF CAVITY TRANSMITTER COMBINER CSG 3148174-3CTC

PARAMETER	SPECIFICATIONS
Frequency Band	148 – 174 MHz
No.of Channels	3
Power Per Channel (Max.)	125 Watt
Frequency Spacing (Min.)	300 KHz
Insertion Loss (Max.)	2.9 dB
Insertion Loss (Min.)	1.8 dB
Isolation Tx / Tx	90 dB
Isolation Ant / Tx	70 dB
Impedance	50 Ω
VSWR In / Out (Max.)	1.1:1 / 1.25: 1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30 – + 60 °C
Dimension Approx. (H x W x D)	826 x 483 x 153 mm
Weight Approx.	19.1 Kg

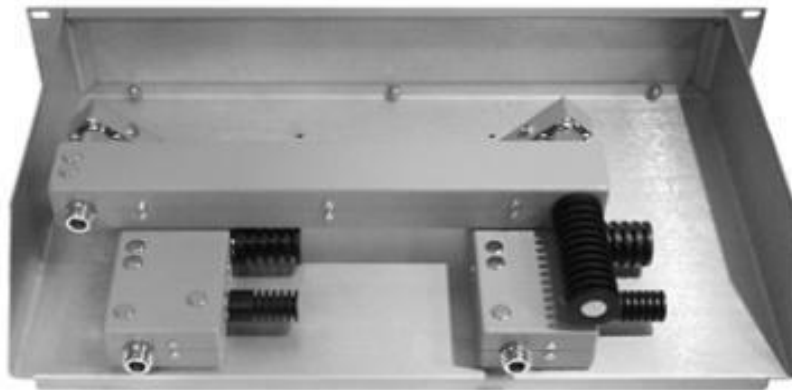


Optional : Cavity Transmitter combiners in other capacities
e.g 4, 5, 6 channels are available.



VHF HYBRID FERRITE TRANSMITTER CSG 31225-4HFTC-50W

PARAMETERS	SPECIFICATIONS
Frequency Band	134-225MHz
No. of Channels	4
Power Per Channel (Max.)	50 watt
Insertion Loss	≤7.0dB
Isolation Tx/Tx	≥100dB
Isolation Ant/Tx	≥70 dB
Impedance	50Ω
VSWR In/Out (Max.)	1.1:1/1.3:1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30°c ~ +60°c
Dimensions(H×W×D)	267×483×369mm
Weight(Approx.)	12.8 kg



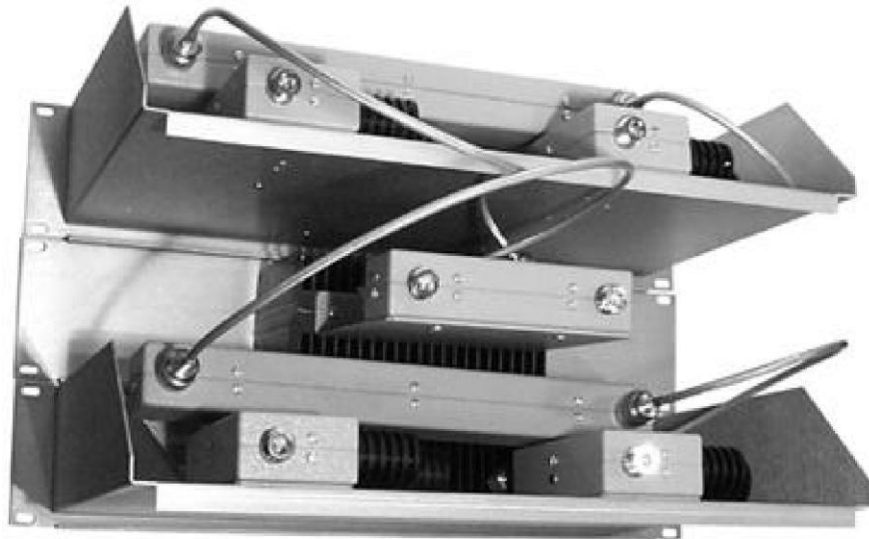
OPTIONAL: HYBRID FERRITE TRANSMITTER COMBINER IN OTHER CAPACITIES

e.g. 2, 3 CHANNELS ARE AVAILABLE



VHF HYBRID FERRITE TRANSMITTER CSG 31225-4HFTC

PARAMETERS	SPECIFICATIONS
Frequency Band	134 – 225 MHz
No. of Channels	4
Power Per Channel (Max.)	125 Watt
Insertion Loss	≤7.0 dB
Isolation Tx / Tx	≥100 dB
Isolation Ant / Tx	≥70 dB
Impedance	50 Ω
VSWR In / Out (Max.)	1.1:1 / 1.3: 1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30 – + 60 °C
Dimension Approx. (H x W x D)	267 x 483 x 369mm
Weight Approx.	12.8 Kg



OPTIONAL: HYBRID FERRITE TRANSMITTER COMBINER IN OTHER CAPACITIES

e.g 2, 3 CHANNELS ARE AVAILABLE



CAVITY TYPE TRANSMITTER COMBINER CSG 34465-3CTC

PARAMETERS	SPECIFICATIONS
Frequency Band	420 - 465 MHz
No. of Channels	3
No. of Cavity	3, 7x7x12 Inches
Power Per Channel (Max.)	125 Watt
Insertion Loss	≤ 2.5 dB
Isolation Tx -Tx	70 dB +
Isolation Ant-Tx	60 dB +
Impedance	50 Ω
VSWR In/Out (Max.)	1.2:1 / 1.25:1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30 ~ +60 °C
Dimensions(H×W×D)	401 × 483 × 407 mm , 9RU
Weight(Approx.)	19.5 kg

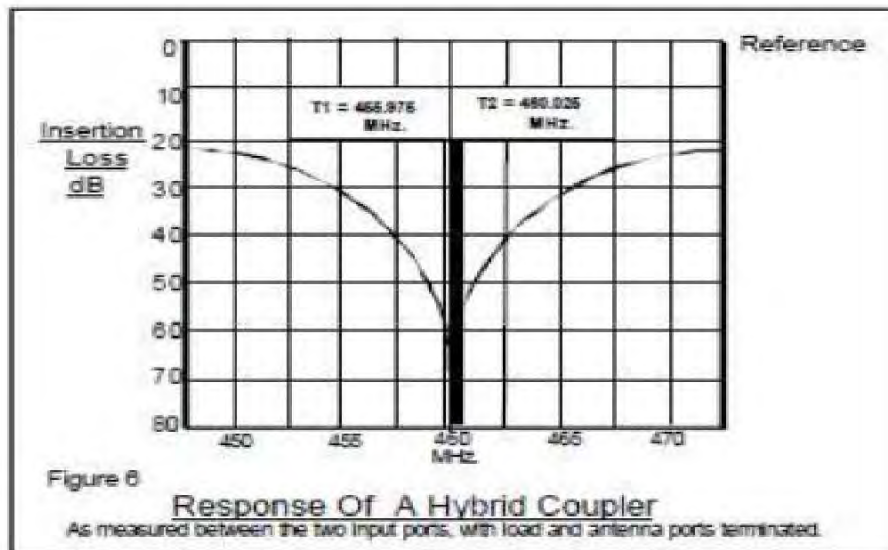
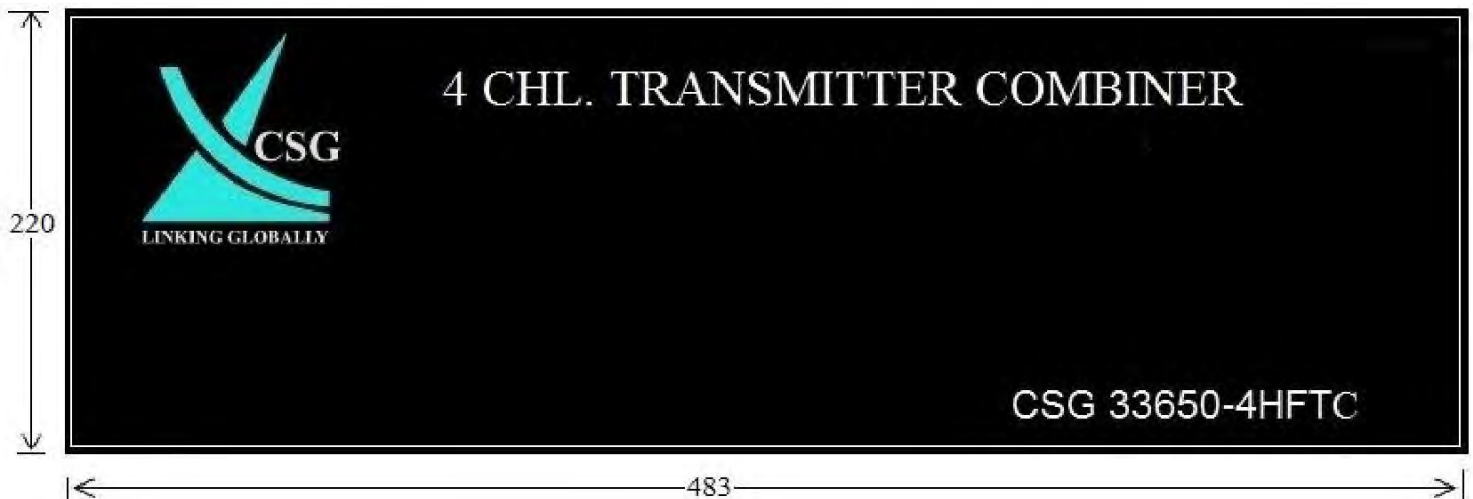




HYBRID FERRITE TRANSMITTER COMBINER

The CSG 33650-4HFTC series of Hybrid Combiners are used to combine multiple RF Signals from Tx ports of base stations / repeaters in Multi-Channel Analog , Digital radios to a common port which is generally connected to Tx port of the duplexer. With the use of power handling hybrid couplers, ferrite isolators, filters and load terminations, many transmitters are thus coupled together.

4-way combiners will have two hybrid splits at 3.3 dB each plus isolator and conducted losses for an average of 7.0 to 7.2 dB loss per path channel loss





HYBRID FERRITE TRANSMITTER COMBINER CSG 33650-4HFTC

PARAMETER	SPECIFICATIONS
Frequency Band	300 - 650 MHz
Number of channels	4
Max. Power per channel	125 watt
Insertion Loss	≤ 7.0 dB
Isolation Tx / Tx	≥ 70 dB
Isolation Ant / Tx	≥ 60 dB
Impedance	50Ω
Max. VSWR Input / Output	1.1 : 1 / 1.3 : 1
Isolator	Dual
Connectors	N (Female)
Temperature Range	-30 to +60 ° C
Dimensions Approx.(H x W x	267 x 483 x 369 mm
Required Rack Units	6
Weight Approx.	10 Kg

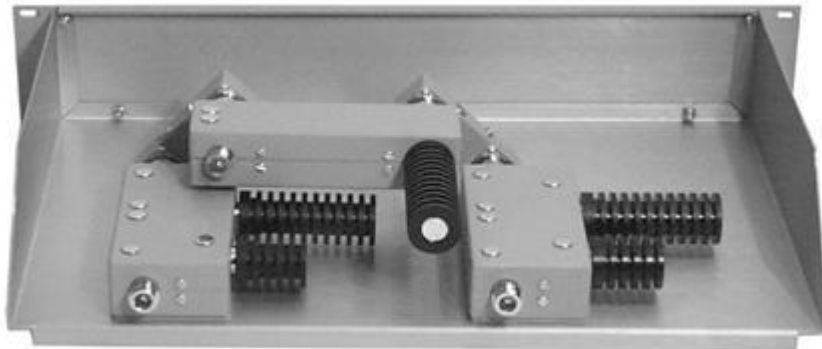


Optional : Hybrid Ferrite Transmitter Combiner in other capacity e.g. 4, 8, 16, are available



UHF HYBRID FERRITE TRANSMITTER COMBINER CSG 33650-2HFTC-50W

PARAMETERS	SPECIFICATIONS
Frequency Band	300-650 MHz
No. of Channels	2
Power Per Channel (Max.)	50 watt
Insertion Loss	≤4.0dB
Isolation Tx/Tx	≥100dB
Isolation Ant/Tx	≥70 dB
Impedance	50Ω
VSWR In/Out (Max.)	1.1:1/1.3:1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30°c ~ +60°c
Dimensions(H×W×D)	89×483×369mm
Weight(Approx.)	8.2 kg



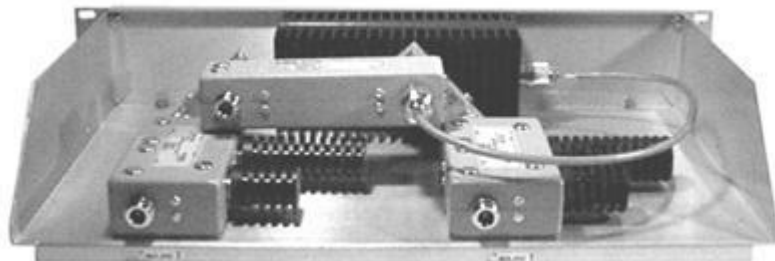
OPTIONAL: HYBRID FERRITE TRANSMITTER COMBINER IN OTHER CAPACITIES

e.g. 2, 4 CHANNELS ARE AVAILABLE



UHF HYBRID FERRITE TRANSMITTER COMBINER CSG 33650-2HFTC-125W

PARAMETERS	SPECIFICATIONS
Frequency Band	300-650 MHz
No. of Channels	2
Power Per Channel (Max.)	125 watt
Insertion Loss	≤4.0dB
Isolation Tx/Tx	≥100dB
Isolation Ant/Tx	≥70 dB
Impedance	50Ω
VSWR In/Out (Max.)	1.1:1/1.3:1
Isolator	Dual
Connectors	N-Female
Temperature Range	-30°c ~ +60°c
Dimensions(H×W×D)	89×483×369mm
Weight(Approx.)	10.90 kg



OPTIONAL: HYBRID FERRITE TRANSMITTER COMBINER IN OTHER CAPACITIES

e.g 2, 4 CHANNELS ARE AVAILABLE