

## 2-Way and 3-Way In-Phase High Power Combiners

*ColdRF™* Heat Displacement Technology

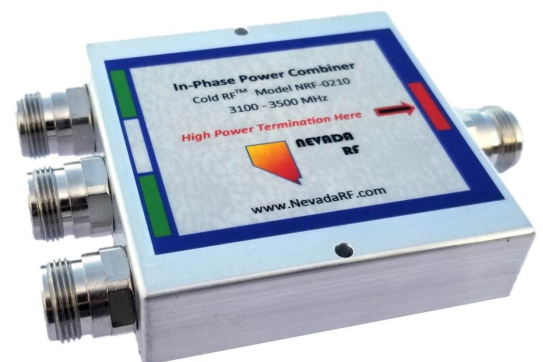
No Internal Resistors or Terminations

Excellent Phase/Amplitude Balance, Return Loss & Isolation

Fast Quotation and Delivery to Custom Requirements

### Why is this a big deal?

*ColdRF™* solutions relocate internal heat dissipation to an external 50 ohm load conveniently connected by coaxial cable. On average, 90 percent of the thermal challenge is moved to a convenient cold plate location, an invaluable benefit when combining signals of different frequencies which would burn out the loads in conventional combiners. The model NRF-0210 (pictured at right) has been tested for 80 hours with two 400 watt CW inputs (3100 and 3500 MHz), with neither damage nor degradation. See the *ColdRF™* **FAQ** for more information.



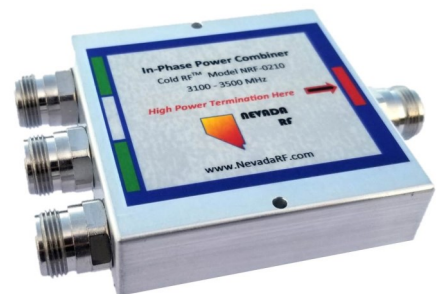
# 2-Way and 3-Way ColdRF™ Combiners

## Standard Models

Model	2 or 3 Way	Band MHz	Power Watts CW	Loss dB	Amp Balance $\pm$ dB	Phase Balance $\pm$ deg	VSWR	Isolation dB	Connector
NRF-1110	2	2400-2500	370	0.30	0.15	1.2	1.23	20.0	N
NRF-1120	2	1850-1950	400	0.35	0.20	1.0	1.23	20.0	N
NRF-1130	3	2400-2500	300	0.35	0.20	1.1	1.23	20.0	N
NRF-1112	2	2900-3100	250	0.28	0.16	0.9	1.23	20.0	N
NRF-1215	3	2900-3100	250	0.33	0.18	1.4	1.23	20.0	N
NRF-0210	2	3100-3500	250	0.35	0.12	0.7	1.20	21.0	N
NRF-0230	2	3100-3500	1200	0.40	0.10	0.7	1.23	20.0	7/16

## Advantages & Applications

- Normal combining of power amplifiers
- Combination of unrelated (uncorrelated) high power inputs
- High power work in small spaces with remote heat sinking
- EW
- EMI/EMC
- Lab instrumentation
- ***Fast turnaround on custom designs***



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