

4:1 RF COMBINER RFSCF407-507-CT

Features:

- 50W Input Power
- Excellent VSWR < 1.5: 1
- 19dB Minimum Isolation
- Low Amplitude Imbalance
- Military Grade
- Rigid Build Quality

Description:

The RFSCF407-507-CT is a 4:1 RF Combiner with frequency range of 400MHz to 500MHz. It offers High Input Power Capability and Low Phase Imbalance with High Isolation between all ports. Low Insertion Loss and Good VSWR makes this product versatile for use in a various system and sub-systems design and its Rigid Military grade shielded design makes this product usable in various environment conditions.

Applications:

- Amateur Radio
- M2M Communication
- ISM Band
- Military Applications
- Radar devices

Optional Accessories:

- 50Ω Termination (N Type)
- RF Adaptors (N-N):
 - N(M) – N(M)
 - N(M) – N(F)
 - N(F) – N(F)



Electrical Specifications:

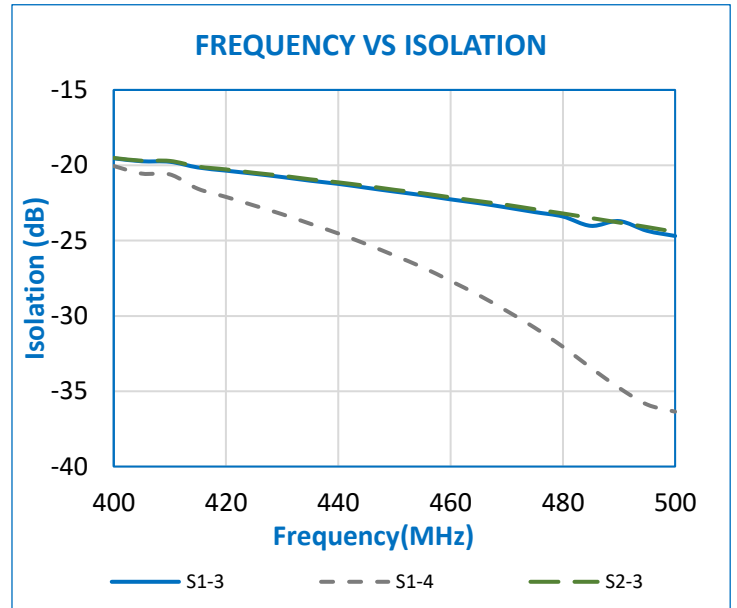
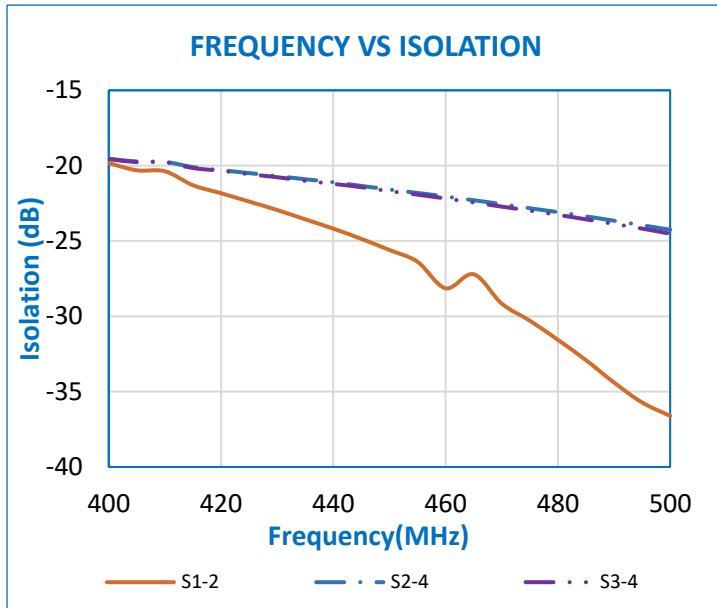
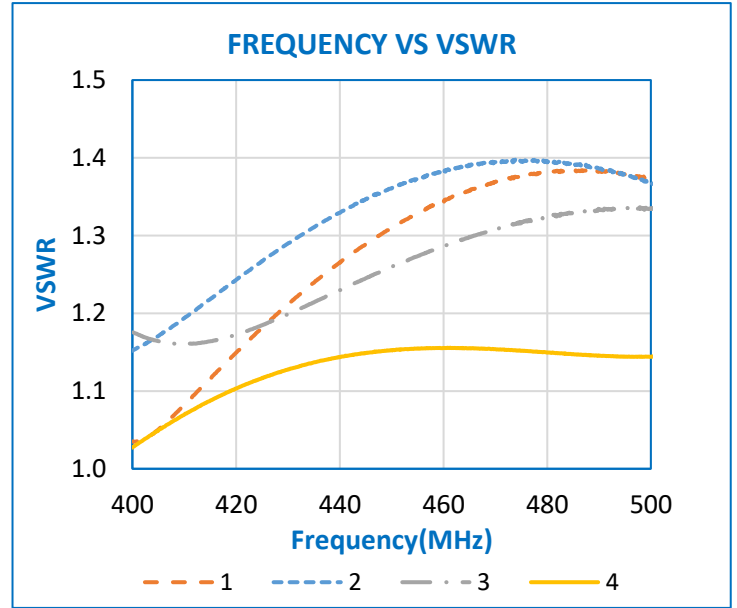
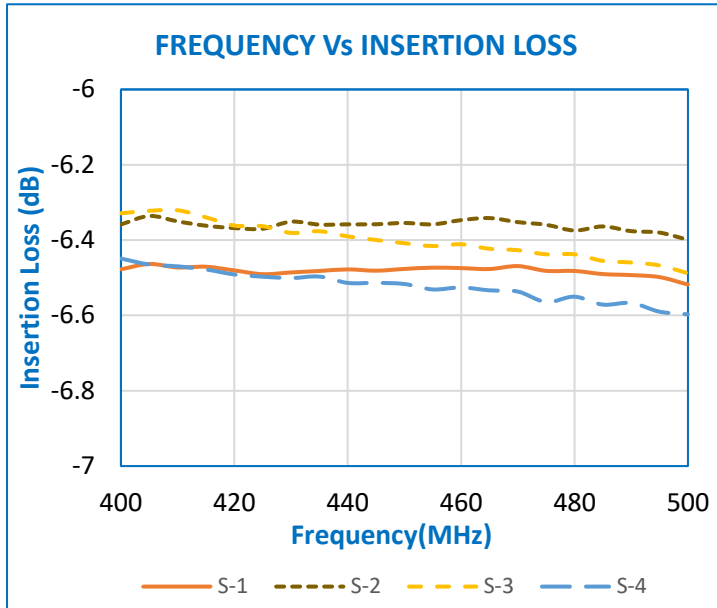
Frequency Range:	400 to 500 MHz
Insertion Loss:	-1dB (max)
Input Power @Sum Port:	50W
Isolation:	-19dB (min)
Amplitude Imbalance:	1dB (max)
Phase Imbalance:	10° (max)
VSWR:	< 1.5:1
Operating temperature:	-55 °C to 85 °C
In/Out Connector:	N Type(F)
In/Out Impedance	50Ω
Weight:	750gm
Test Conditions:	
Input Power:	0dBm
Typical Room Temperature:	25 °C

S Parameter Test Data:

FREQUENCY (MHz)	INSERTION LOSS (dB)				ISOLATION (dB)						VSWR				
	S-1	S-2	S-3	S-4	1-2	1-3	1-4	2-3	2-4	3-4	S	1	2	3	4
400	-6.44	-6.29	-6.30	-6.43	-19.83	-19.54	-20.05	-19.51	-19.54	-19.56	1.43	1.14	1.14	1.21	1.16
410	-6.45	-6.31	-6.30	-6.44	-20.37	-19.77	-20.61	-19.71	-19.75	-19.78	1.41	1.13	1.13	1.20	1.16
420	-6.43	-6.29	-6.29	-6.43	-21.83	-20.36	-22.10	-20.28	-20.30	-20.34	1.38	1.12	1.12	1.19	1.14
430	-6.43	-6.29	-6.30	-6.43	-22.95	-20.78	-23.25	-20.70	-20.69	-20.77	1.36	1.11	1.11	1.18	1.13
440	-6.43	-6.29	-6.29	-6.43	-24.18	-21.24	-24.53	-21.13	-21.10	-21.21	1.34	1.10	1.10	1.17	1.12
450	-6.44	-6.31	-6.31	-6.43	-25.60	-21.75	-25.99	-21.63	-21.59	-21.70	1.33	1.09	1.09	1.16	1.11
460	-6.44	-6.31	-6.30	-6.43	-27.21	-22.26	-27.68	-22.13	-22.05	-22.18	1.32	1.08	1.08	1.16	1.10
470	-6.44	-6.30	-6.29	-6.44	-29.16	-22.80	-29.67	-22.63	-22.55	-22.72	1.31	1.07	1.07	1.15	1.10
480	-6.45	-6.31	-6.31	-6.44	-31.56	-23.40	-32.05	-23.20	-23.08	-23.27	1.30	1.07	1.07	1.15	1.09
490	-6.46	-6.31	-6.31	-6.44	-34.39	-24.02	-34.77	-23.80	-23.65	-23.87	1.30	1.06	1.06	1.15	1.09
500	-6.45	-6.30	-6.32	-6.44	-36.61	-24.69	-36.36	-24.42	-24.25	-24.52	1.29	1.06	1.06	1.15	1.08

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S Parameter Test Graphs:



Mechanical Dimensions:

