



*Passives with a Passion
for Performance*



About MiniRF, Inc.

MiniRF is a new name for a passive component company with over 20 years of design and manufacturing experience. The company was originally formed by PDI (Premier Devices Inc.) in the early 1990's, was acquired by Sirenza Microdevices in 2006 which in turn was acquired by RFMD in 2007, MiniRF has returned to its roots, focusing strictly on passive components.

MiniRF is dedicated to providing quality RF passive components at competitive prices for existing and emerging Broadband/CATV and Wireless Communications Systems. MiniRF is a proven leader in supplying high performance surface mount passive components. MiniRF components are found in the products of many of the world's largest suppliers of communications products with nearly a billion units shipped.

MiniRF designs and manufactures both standard and custom transformers, couplers, splitters, mixers and chokes. We specialize in delivering quality surface mount passive components and devices. A ferrite core is found in almost every MiniRF product. The performance of MiniRF's product depends on the magnetic properties of the core and the magnetic flux associated with the wires wrapped around it. Winding ferrite cores is a specialized manual process that is labor intensive. RF performance for these passive devices will vary with minor differences in how the wire is wound to the core.



Global Experience with Local Design Expertise



MiniRF has established a manufacturing process where details are documented from sourcing materials, assembly and all the way through 100% RF testing. All MiniRF manufacturing facilities are ISO9001 certified and its test equipment is regularly calibrated.

The overall market for broadband passive RF components is very competitive so attention to material cost and tight management of our processes are important. The experienced management team understands this and is committed to deliver quality products at competitive prices at any volume.

To learn more about us, please visit www.minirf.com.





MiniRF is dedicated to providing quality RF passive components at competitive prices for existing and emerging Broadband/CATV and Wireless Communications Systems. MiniRF is a proven leader in supplying high performance surface mount passive components.



Products & Services Include:

Surface Mount Couplers

MiniRF produces miniature couplers designed for applications that require small, low cost, and highly reliable surface mount components. Coupler applications may be found in Broadband/CATV Communications Systems. A number of surface mount packaging options are available including: S06, S18, and S20 packaging styles.



Performance solutions for your component needs

Surface Mount Splitters

MiniRF produces 1Ghz and 4-Way bandwidth miniature 0° two way power splitters designed for both 50Ω and 75Ω applications which require small, low cost and highly reliable surface mount components. Applications include Broadband, CATV, and Wireless communications systems.



New! Air Coil in Single and Multi Core

Custom Inductors are needed in a number of higher power applications to provide optimum circuit performance given size and frequency of the overall circuit. Mini RF offers a myriad of options to provide high performance inductors in numerous size, shapes and forms. MiniRF can produce air core wire wound inductors with wire diameters from a little as 0.060 mm (0.0025 in) to 5 mm (0.200 in) in both single layer and multilayer, air-core, coil configurations.



Chokes



MiniRF also produces miniature RF Chokes for a variety of Broadband/CATV applications. Please contact us with your specific requirements and applications.

Surface Mount Transformers



MiniRF produces miniature transformers for designs which require small, low cost, and highly reliable surface mount components. Both 50Ω and 75Ω applications are supported in the product offering. Impedance ratios of 1:1, 1:4, 1:8, 1:16 are typical in support of applications in broadband, wireless, and other RF communications systems.



**ISO 9001 Manufacturing
Operations / 100% Testing**



50Ω SMT Couplers

Part	Freq Range	Nominal	Coupling	Mainline Loss	Directivity	Return Loss	Package
Number	(MHz)	Coupling (dB)	Flatness (dB)	(dB)	(dB)	(dB) (Min)	Model
CPA-1001-510H	5 - 1000	10.0 ±0.5	±0.5	1.2	25	14	S06
CPA-1001-56H	5 - 1000	6.5 ±0.5	±0.5	1.9	15	12	S06
CPA-0501-510H	5 - 500	10.0 ±0.5	±0.5	0.8	30	15	S06

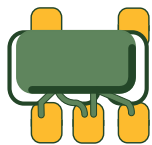
75Ω SMT Couplers

Part	Freq Range	Nominal	Coupling	Mainline Loss	Directivity	Return Loss	Package
Number	(MHz)	Coupling (dB)	Flatness (dB)	(dB)	(dB)	(dB) (Min)	Model
MRFCP0015 New	5 - 1220	7.5 ±0.5	±0.5	1.4	19	18	S20
RFCP5742	5 - 1200	10.0 ±0.5	±0.5	1.5	14	11	S18
RFCP5743	5 - 1200	10.0 ±0.5	±0.5	1.5	14	14	S20
RFCP5762	5 - 1200	16.0 ±0.5	±0.5	0.6	20	14	S18
RFCP5763	5 - 1200	16.0 ±0.5	±0.5	0.8	20	14	S20
RFCP5773	5 - 1200	20 ±0.5	±0.5	0.5	20	14	S20
MRFCP0013 New	5 - 1200	7.0 ±0.5	±0.5	1.6	18	14	S20
MRFCP0014 New	5 - 1200	10.0 ±0.5	±0.5	1.1	18	14	S20
CPA-1001-708H	5 - 1000	8.5 ±0.3	±0.5	1.7	20	14	S06
CPA-1001-710H	5 - 1000	10.0 ±0.5	±0.5	1.2	14	14	S06
CPA-1001-716H	5 - 1000	16.0 ±0.5	±0.5	0.6	30	14	S06
CPA-1001-720H	5 - 1000	20.5 ±0.5	±0.7	0.4	20	14	S06
CPK-1001-710H	5 - 1000	10.0 ±0.5	±0.5	1.2	25	14	S01
CPK-1001-716H	5 - 1000	16.0 ±0.5	±0.5	0.6	30	14	S01
CPK-1001-720H	5 - 1000	20.5 ±0.5	±0.5	0.4	20	17	S01
RFCP4792	5 - 1000	17 ±0.5	±0.75	0.75	22	18	S18

50Ω SMT Two Way Splitters

Part	Freq Range	Return Loss	Isolation	Insertion Loss	Package
Number	(MHz)	(dB) (Min)	(dB)	(dB)	Model
SPA-2501-25H	1700 - 2500	9.6	24	0.5	S06
MRFSP8525 New	2 - 2500	23	30	0.15	S19
SPC-2201-25H	1800 - 2200	11	23	0.5	S10
SPC-2001-25H	1600 - 2000	11	18	0.4	S10
MRFSP7525 New	2 - 2000	15	22	0.6	S19
RFSP5522	5 - 1200	14	22	1	S18
SPA-1002-25H	5 - 1000	9.6	16	0.4	S06
MRFSP4525 New	1 - 1000	14	33	0.6	S19
SPA-1001-25H	800 - 980	17.7	23	0.2	S06
SPA-0701-25H	1 - 650	14	25	0.4	S06
SPA-0501-25H	1 - 500	14	25	0.4	S06

75Ω SMT Two Way Splitters					
Part	Freq Range	Return Loss	Isolation	Insertion Loss	Package
Number	(MHz)	(dB) (Min)	(dB)	(dB)	Model
MRFSP6725 New	5 - 1600	17	25	0.7	S19
RFSP5722	5 - 1200	12	28	0.8	S18
MRFSP5725 New	5 - 1200	17	28	0.5	S19
MRFSP0014 New	5 - 1002	17	30	0.5	S19
SPA-1002-27H	5 - 1000	17.7	30	0.5	S06
SPA-1003-27H	30 - 1000	20	30	0.5	S06
SPA-0101-27H	5 - 100	22	35	0.25	S06
75Ω SMT Three Way Splitters					
Part	Freq Range	Return Loss	Isolation	Insertion Loss	Package
Number	(MHz)	(dB) (Min)	(dB)	(dB)	Model
RFSP5731	20 - 1200	14	25	1.5	S04
RFSP2731	5 - 200	23	30	0.35	S04
75Ω SMT Four Way Splitters					
Part	Freq Range	Return Loss	Isolation	Insertion Loss	Package
Number	(MHz)	(dB) (Min)	(dB)	(dB)	Model
MRFSP0012 New	5-1002	18	25	0.75	S25
MRFSP0018 New	5-1208	18	25	0.75	S25



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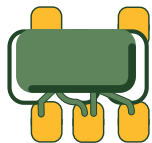
Global RF Passive Component Provider

50Ω SMT RF Transformers					
Part	Freq Range	Insertion Loss	Return Loss	Impedance	Package
Number	(MHz)	(dB)	(dB) (Typ)	Ratio	Model
RFXF9503	3 - 3000	<3.5	14	1:1	S20
RFXF9504	5 - 3000	<3	14	1:1	S21
XFM-3001-1UH *	5 - 3000	<3	14	1:1	S03
RFXF8553	500 - 2500	<3	14	1:4	S20
XFM-2501-4WH	500 - 2500	<3	14	1:4	S03
XFP-2501-1UH	1 - 2500	<3	17	1:1	S09
XFK-2001-1UH *	2.5 - 2000	<3	12	1:1	S01
RFXF6553	10 - 1900	<3	14	1:4	S20
XFM-1901-1UH *	800 - 1900	<3	12	1:1	S03
MRFXF6533 New	5 - 1600	<2	22	1:2	S20
RFXF5553	5 - 1200	<2	16	1:4	S20
MRFXF5532 New	5 - 1200	<2	12	1:2	S18
RFXF3553	2 - 1000	<2	17	1:4	S20
XFM-1001-4WH	1 - 1000	<2	16	1:4	S03
XFP-1001-1UH *	5 - 1000	<2	17	1:1	S09
XFP-1001-4WH	5 - 1000	<2	16	1:4	S09
RFXF4513	5 - 1000	<1.5	14	1:1	S20
XFK-0901-4WH	8 - 900	<2	18	1:4	S01
XFM-0701-4WH	3.5 - 700	<3	15	1:4	S03
MRFXF4533 New	10 - 700	<2.5	16	1:2	S20
RFXF3593	0.5 - 550	<1.5	22	1:1.5	S20
RFXF3513	0.4 - 500	<3	16	1:1	S20
XFA-0401-1UH *	1 - 400	<3	12	1:1	S06
RFXF2533	2 - 350	<1	22	1:2	S20
RFXF2553	1 - 350	<1	26	1:4	S20
XFA-0301-1WH	0.05 - 300	<3	12	1:1	S06
XFA-0301-4BH **	0.1 - 240	<3	15	1:4	S06
XFA-0301-4UH *	0.05 - 220	<3	32	1:4	S06
RFXF2513	0.3 - 200	<1	20	1:1	S20
XFK-0201-16WH	13 - 200	<3	14	1:16	S01
XFM-0201-1WH	3 - 200	1.5	18	1:1	S03
XFA-0201-1WH	0.006 - 150	<3	14	1:1	S06
XFA-0201-8WH	0.05 - 125	<2	21	1:8	S06
XFA-0101-1BH **	0.008 - 100	<3	36	1:1	S06
XFA-0101-25UH *	0.011 - 100	<1	17	1:2.5	S06
RFXF0014	5 - 100	<0.8	23	1:1.5	S20C
RFXF0016	5 - 100	<1.75	17	1:4	S20C
XFA-0101-16UH *	0.165 - 75	<3	17	1:16	S06
RFXF0573	5 - 40	<1	21	1:16	S20

75Ω SMT RF Transformers					
Part	Freq Range	Insertion Loss	Return Loss	Impedance	Package
Number	(MHz)	(dB)	(dB) (Typ)	Ratio	Model
MRFXF0026 New	45 - 1218	<2	16	1:2.78	SP8
RFXF5702	5 - 1200	<2	28	1:1	S18
RFXF5703	5 - 1200	<2	33	1:1	S20
RFXF5704	5 - 1200	<2	29	1:1	S21
RFXF5712	5 - 1200	<2	26	1:1	S18
RFXF5753	5 - 1200	<3	14	1:4	S20
RFXF5792	5 - 1200	<2	20	1:1	S18
RFXF5793	5 - 1200	<1	27	1:1	S20
RFXF5794	5 - 1200	<1	26	1:1	S21
RFXF5743	5 - 1200	<2	15	1:3	S20
RFXF5732	5 - 1200	<2.5	14	1:2	S18
MRFXF5733 New	5-1600	<3	18	1:2	S20
MRFXF5732-1 New	5 - 1200	<2	25	1:2	S18D
MRFXF0025 New	45 - 1200	<1	25	1:1	S20
MRFXF0024 New	45 - 1218	<0.7	25	1:1	S20
MRFXF0032 New	45 - 1200	<0.8	25	1:1	S20A
MRFXF0035 New	45 - 1218	<0.75	25	1:1	S20W
MRFXF5702 New	45 - 1200	<0.65	20	1:1	S18D
XFM-1001-1UH *	15 - 1003	<1.2	22	1:1	S03
XFA-1001-1UH *	40 - 1000	<3	14	1:1	S06
XFK-1001-1UH *	40 - 1000	<1	22	1:1	S01
XFM-1002-1UH *	40 - 1000	<1	15	1:1	S03
MRFXF2753 New	5 - 250	<1	18	1:4	S20
MRFXF0021 New	5 - 250	<0.4	20	1:1	S20
MRFXF2793 New	5 - 250	<1	18	1:04	S20
MRFXF2733 New	5-210	<0.3	27	1:2	S20W
RFXF2713	5 - 200	<1	22	1:1	S20
RFXF2795	5 - 200	<1	27	1:1.78	S19
RFXF0013	5 - 200	<0.8	22	1:1	S20C

* Unbalanced to Unbalanced

** Balanced to Balanced

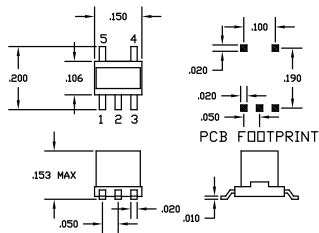


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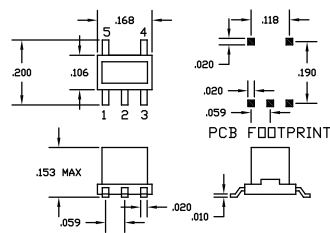
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Package Drawings

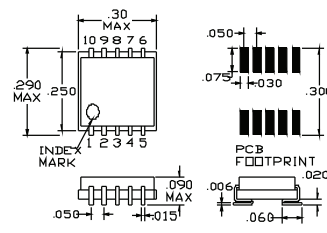
Package Drawing - S03



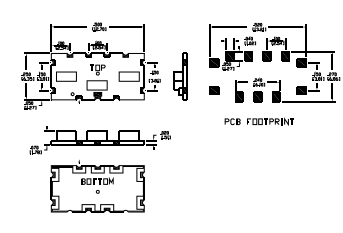
Package Drawing - S09



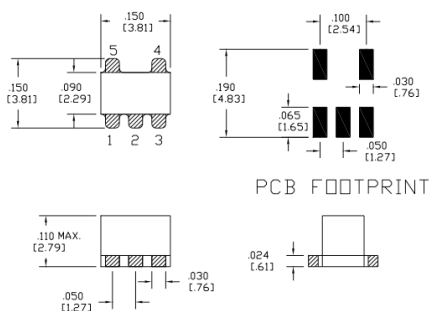
Package Drawing - S10



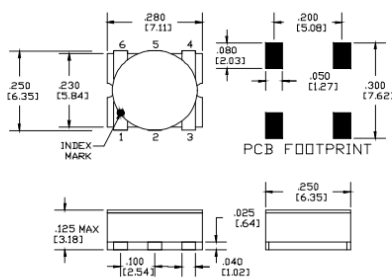
Package Drawing - S25



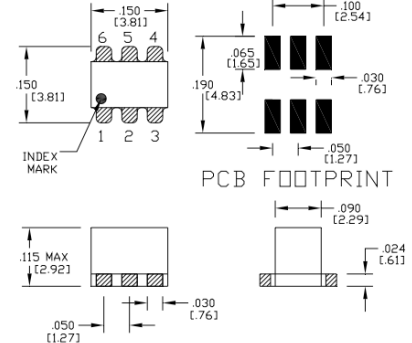
Package Drawing - S20



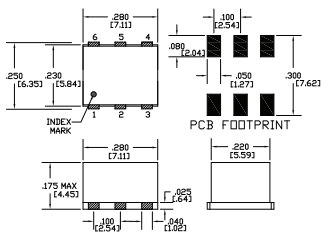
Package Drawing - S18D



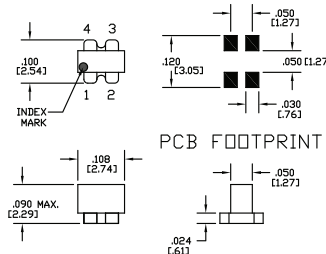
Package Drawing - S19



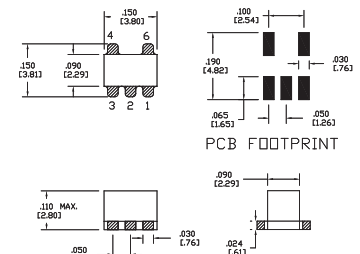
Package Drawing - S18



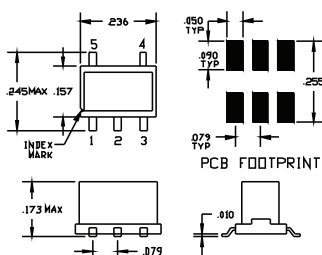
Package Drawing - S21



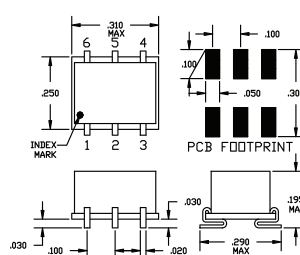
Package Drawing - S20C



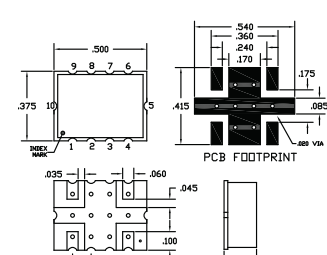
Package Drawing - S01

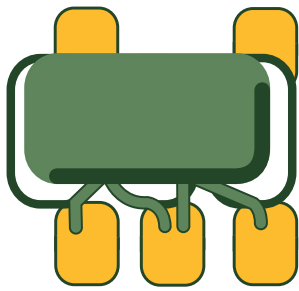


Package Drawing - S06



Package Drawing - S04





MiniRF

Passives with a Passion for Performance

MiniRF is a proven leader in supplying high performance surface mount RF passive components at competitive prices for existing and emerging Broadband/CATV and Wireless Communications Systems.

MiniRF components are used in many of the world's largest suppliers of communications products with nearly a billion units shipped.

Standard & Custom Components

COUPLERS



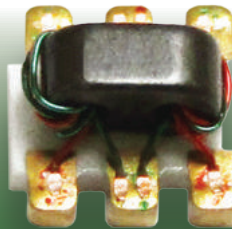
Small, low cost, and highly reliable surface mount couplers found in Broadband / CATV Communications

SPLITTERS



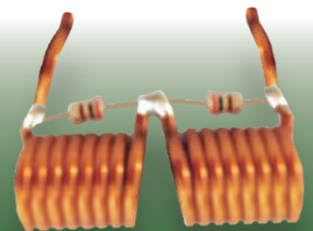
2.5 GHz BW, 2/3&4 way power splitters designed for both 50 & 75 ohm applications.

TRANSFORMERS



50 Ω & 75 Ω supporting a wide range of applications with impedance ratios of 1:1, 1:4, 1:8, 1:16.

RF CHOKES



Precision inductors & chokes with wire diameters from 0.060~5mm single & multilayer, air-core, coil configurations.

Contact us for design support

www.minirf.com | sales@minirf.com | (408) 228-3533



Passives with a Passion for Performance

MiniRF is dedicated to supporting the world market with high performance, repeatable ferrite based passive components and our new line of custom air coil inductors! We serve the Broadband and Wireless Communications markets with emphasis on the new generation of hybrid Fiber Coax systems as well as Wireless Communication sub-systems.

MiniRF is a proven leader in high performance passives which are repeatedly produced using strict manufacturing controls and testing. MiniRF components are found in many of the world's largest suppliers of communication products with nearly a billion units shipped. Please contact our impassioned local sales network or our customer service team to find the high performance passives to fit your needs.



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