

ERZIA

PRODUCT
GUIDE
2021



Microwave and Millimeter Wave
Amplifiers, Assemblies,
and Suspended Substrate Filters



WHEN IT GETS REAL, THEY'LL BE GLAD
YOU PUT YOUR FAITH IN **ERZIA**



LOW NOISE AMPLIFIERS (LNAs)



Wideband

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-0010-0600-18-5.5	0.1-6	20	5.5	27
ERZ-LNA-0002-0600-30-2	0.02-6	30	2	20
ERZ-LNA-0002-0600-27-5.5	0.02-6	27	5.5	25
ERZ-LNA-0005-1000-30-5.5	0.05-10	31	5	31
ERZ-LNA-0600-1700-20-2	6-17	20	2	17
ERZ-LNA-0050-1800-14-4	0.5-18	14	4	15
ERZ-LNA-0050-1800-18-4	0.5-18	18	4	20
ERZ-LNA-0050-1800-14-3.5	0.5-18	14	3.5	20
ERZ-LNA-0050-1800-23-8	0.5-18	24	5	17
ERZ-LNA-0050-1800-15-3	0.5-18	15	3.5	15
ERZ-LNA-0200-1800-30-2	2-18	30	2	18
ERZ-LNA-0200-1800-23-2.5	2-18	23	2.5	15
ERZ-LNA-0200-1800-18-4	2-18	20	3	22
ERZ-LNA-0200-1800-17-4	2-18	17	4	23
ERZ-LNA-0200-1800-18-5.5	2-18	15	3	19
ERZ-LNA-0550-1800-40-4	5.5-18	45	4	9
ERZ-LNA-0865-2265-30-3	8.65-22.65	30	3	14
ERZ-LNA-0100-2700-45-4	1-27	45	4	17
ERZ-LNA-1000-2700-30-4	10-27.5	30	4	22
ERZ-LNA-1250-3000-25-2.5	12.5-30	25	2.5	14
ERZ-LNA-2000-3000-17-2.5	20-30	17	2.5	7
ERZ-LNA-1800-3200-21-3	18-32	21	3	11
ERZ-LNA-0200-3300-30-4	2-33	30	4	16
ERZ-LNA-0100-3800-12-4	1-38	12	4	10
ERZ-LNA-0100-4000-45-5	1-40	45	5	18
ERZ-LNA-0100-4000-30-5	1-40	30	5	16
ERZ-LNA-1600-4000-28-6	16-40	28	6	22
ERZ-LNA-1800-4000-23-12	18-40	24	5	14
ERZ-LNA-1800-4000-15-4	18-40	15	4	18
ERZ-LNA-1800-4200-24-6	18-42	24	6	9
ERZ-LNA-0200-4500-15-4	2-45	15	4	10
ERZ-LNA-0200-5000-22-6	2-50	22	5	10

L-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-0007-0110-28-2	0.07-1.1	28	2	17
ERZ-LNA-0125-0175-27-2	1.25-1.75	27	2	15
ERZ-LNA-0100-0200-20-1.5	1-2	20	1.5	20
ERZ-LNA-0070-0300-20-0.7	0.7-3	22	0.7	20
ERZ-LNA-0100-0310-30-2	1-3.1	30	1.6	19

S-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-0270-0310-30-0.5	2.7-3.1	30	0.5	15

C-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-0340-0470-23-2	3.4-4.7	23	2	12
ERZ-LNA-0340-0470-13-2	3.4-4.7	13	2	19
ERZ-LNA-0690-0800-30-2.5	6.9-8	30	2.5	20
ERZ-LNA-0300-0930-30-2	3-9.3	30	2	19

X-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-0850-0960-30-2.5	8.5-9.6	30	2.5	20
ERZ-LNA-0840-1020-25-1.5	8.4-10.2	25	1.5	11
ERZ-LNA-1000-1100-30-2.5	10-11	30	2.5	20
ERZ-LNA-0600-1200-35-3	6-12	35	2	20
ERZ-LNA-0600-1200-33-3.5	6-12	33	3.5	20
ERZ-LNA-0600-1200-31-2.5	6-12	31	2.5	21
ERZ-LNA-0600-1200-28-1.5	6-12	28	1.5	28
ERZ-LNA-0800-1220-26-2	8-12.2	26	2	21
ERZ-LNA-0700-1400-16-2	7-14	16	2	10

Ku-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-1000-1600-15-2.5	10-16	15	2.5	10
ERZ-LNA-1250-1700-33-3	12.5-17	33	3	14
ERZ-LNA-1250-1780-30-3	12.5-17.8	30	3	11

K-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-1700-2400-25-2.5	17-24	25	2.5	14
ERZ-LNA-2100-2700-25-2	21-27	25	2	14
ERZ-LNA-2550-2700-45-1.8	25.5-27	45	2	12

Ka-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-1770-2200-70-2-W	17.7-22	70	2	10
ERZ-LNA-1770-2200-70-2	17.7-22	70	2	10
ERZ-LNA-1770-2200-40-1.5	17.7-22	39	1.5	10
ERZ-LNA-2600-4000-30-2.5-W	26-40	30	2.5	11
ERZ-LNA-2600-4000-50-2.5	26-40	50	2.5	14
ERZ-LNA-2600-4000-30-2.5	26-40	30	2.5	11
ERZ-LNA-3000-4000-20-2.5	30-40	20	2.5	10
ERZ-LNA-2500-4300-33-2	25-43	33	2	0

Q-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-4250-4550-30-4.5	42.5-45.5	30	4.5	19

V-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-4720-5140-15-3.5	47.2-50	15	3.5	1.5
ERZ-LNA-4720-5140-15-4	47.2-50	11	3.5	12

W-band

Part Number	Frequency (GHz)	Gain (dB)	Noise Figure (dB)	Pout (dBm)
ERZ-LNA-9300-9500-20-4	93-95	20	4	1
ERZ-LNA-7500-11000-20-4	75-110	20	4	1

HIGH POWER AMPLIFIERS (HPAs)



Wideband

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-0003-0050-28	0.03-0.5	28	34
ERZ-HPA-0010-0400-25-E	0.1-4	25	30
ERZ-HPA-0010-0400-25	0.1-4	25	20
ERZ-HPA-0175-0625-43	1.75-6.25	43	43
ERZ-HPA-0200-0800-36	2-8	36	43
ERZ-HPA-0100-1800-21	1-18	21	14
ERZ-HPA-0200-1800-30-E	2-18	30	40
ERZ-HPA-0200-1800-30	2-18	30	30
ERZ-HPA-0600-1800-40-P	6-18	40	28
ERZ-HPA-0600-1800-40-E	6-18	40	46
ERZ-HPA-0600-1800-40	6-18	40	45
ERZ-HPA-0200-2000-44	2-20	43	40
ERZ-HPA-0200-2000-37	2-20	37	36
ERZ-HPA-0010-2300-27	0.1-23	27	28
ERZ-HPA-0600-2650-40-RM	6-26.5	43	43
ERZ-HPA-1600-3300-24-E	16-33	24	34
ERZ-HPA-1600-3300-24	16-33	24	17
ERZ-HPA-2000-3300-20	20-33	20	22
ERZ-HPA-2300-3700-27	23-37	27	21
ERZ-HPA-2300-3700-25	23-37	24	20
ERZ-HPA-1900-3800-21	19-38	21	20
ERZ-HPA-0050-4000-8	0.5-40	16	15
ERZ-HPA-0050-4000-12	0.5-40	16	28
ERZ-HPA-2000-4000-24	20-40	24	20
ERZ-HPA-2400-4000-22	24-40	22	30
ERZ-HPA-2200-4300-32	22-43	32	35
ERZ-HPA-1700-4300-22-E	17-43	22	45
ERZ-HPA-1700-4300-22	17-43	22	25
ERZ-HPA-2000-4500-24	20-45	24	20

L-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-0050-0200-25	0.5-2	28	27

S-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-0280-0330-40	2.8-3.3	40	38
ERZ-HPA-0200-0400-43	2-4	43	40
ERZ-HPA-0200-0400-40	2-4	40	32
ERZ-HPA-0200-0400-30	2-4	30	35
ERZ-HPA-0200-0400-24	2-4	24	23

C-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-0480-0490-47	4.8-4.9	47	27
ERZ-HPA-0440-0500-40	4.4-5	40	37
ERZ-HPA-0490-0525-43	4.9-5.25	43	45
ERZ-HPA-0520-0540-44	5.2-5.4	46	52
ERZ-HPA-0570-0590-42	5.7-5.9	42	40
ERZ-HPA-0500-0600-25	5-6	28	24
ERZ-HPA-0640-0720-42	6.4-7.2	42	46

X-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-0790-0840-46	7.9-8.4	46	44
ERZ-HPA-0790-0840-37-E	7.9-8.4	37	36
ERZ-HPA-0790-0850-37	7.9-8.5	37	40
ERZ-HPA-0790-0850-40	7.9-8.5	40	50
ERZ-HPA-0850-0980-55	8.5-9.8	55	38
ERZ-HPA-0600-1000-31	6-10	31	23
ERZ-HPA-0850-1050-49	8.5-10.5	49	43
ERZ-HPA-0800-1100-43	8-11	43	35
ERZ-HPA-0900-1400-34	9-14	34	35

Ku-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-1250-1550-34	12.5-15.5	34	27
ERZ-HPA-1300-1600-37	13-16	37	24
ERZ-HPA-1200-1600-26	12-16	26	23
ERZ-HPA-1200-1800-27	12-19	27	14
ERZ-HPA-1200-1900-29	12-19	29	27
ERZ-HPA-1860-1960-25	18.6-19.6	25	26

K-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-1700-2400-34	17-24	34	22
ERZ-HPA-1500-2700-29-E	15-27	30	33
ERZ-HPA-1500-2700-29	15-27	29	17

Ka-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-2600-2800-22	26-28	22	19
ERZ-HPA-2700-3100-43	27-31	43	51
ERZ-HPA-2700-3100-43-C	27-31	43	51
ERZ-HPA-2700-3100-43-P	27-31	43	30
ERZ-HPA-2900-3100-37-E	29-31	37	38
ERZ-HPA-2900-3100-37	29-31	37	21
ERZ-HPA-3000-3100-46	30-31	46	44
ERZ-HPA-2800-3200-32	28-32	32	20
ERZ-HPA-2800-3300-33	28-33	33	16
ERZ-HPA-2400-3600-27	24-36	27	35
ERZ-HPA-3400-3600-35	34-36	35	35
ERZ-HPA-3400-3600-33	34-36	33	39
ERZ-HPA-3100-3700-33-W	31-37	33	18
ERZ-HPA-3100-3700-33	31-37	33	18
ERZ-HPA-3200-3800-40	32-38	40	49
ERZ-HPA-3200-3800-35	32-38	35	33
ERZ-HPA-3200-3800-25	32-38	25	32
ERZ-HPA-3000-4000-32-E-W	30-40	32	39
ERZ-HPA-3000-4000-32-E	30-40	32	39
ERZ-HPA-3000-4000-32	30-40	32	18
ERZ-HPA-2600-4000-33-A	26-40	33	35
ERZ-HPA-2650-4000-33	26-40	33	35
ERZ-HPA-2600-4000-33	26.5-40	33	36
ERZ-HPA-2700-4200-27	27-42	27	30

Q-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-3300-4500-23	33-45	23	15
ERZ-HPA-4000-4500-28-E	40-45	28	23
ERZ-HPA-4100-4600-32	41-46	32	31
ERZ-HPA-4100-4600-30	41-46	30	28
ERZ-HPA-3300-4700-29	33-47	29	30
ERZ-HPA-3300-4700-24-E	33-47	26	25
ERZ-HPA-3300-4700-24	33-47	24	17

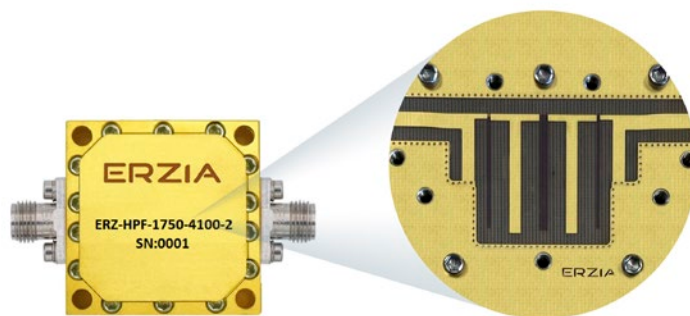
V-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-5000-6600-19	50-66	16	20

W-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-7500-8300-27	75-83	27	17
ERZ-HPA-7500-8300-25	75-83	25	17
ERZ-MPA-7500-8300-13	75-83	13	18

SUSPENDED SUBSTRATE RF/MICROWAVE FILTERS

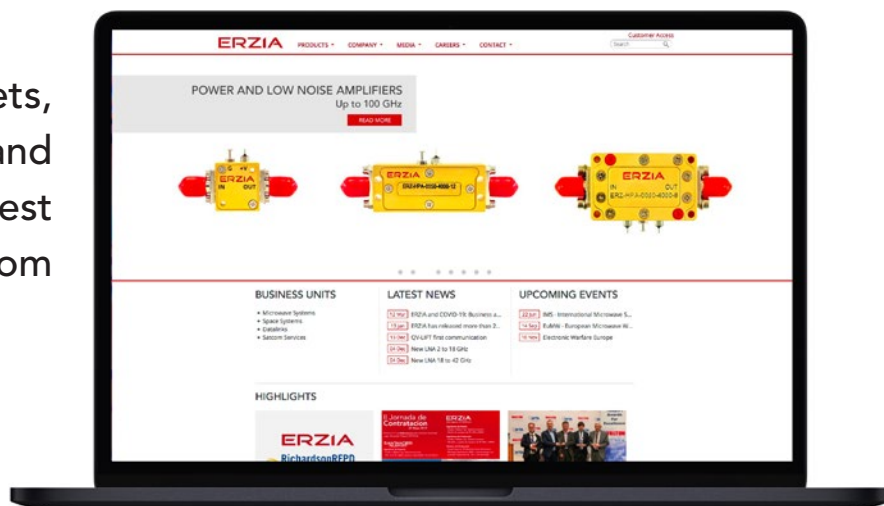


Part Number	Type	Tech.	Frequency (GHz)	IL typ (dB)	RL typ (dB)
ERZ-HPF-1750-4100-2.0	HPF	SS	17.5-41	1.3	13
ERZ-BPF-0190-0210-1.8	BPF	SS	1.9-2.1	1.4	18
ERZ-HPF-0210-0480-1.3	HPF	SS	2.1-4.8	0.5	15
ERZ-HPF-0350-0690-1.7	HPF	SS	3.5-6.9	0.7	15
ERZ-HPF-0540-1210-1.4	HPF	SS	5.4-12.1	0.8	15
ERZ-HPF-0930-1870-1.7	HPF	SS	9.3-18.7	1	15
ERZ-LPF-0000-0250-1.3	LPF	SS	0-2.5	0.4	15
ERZ-LPF-0000-0380-1.3	LPF	SS	0-3.8	0.3	20
ERZ-LPF-0000-0610-1.6	LPF	SS	0-6.1	0.3	20
ERZ-LPF-0000-1000-1.5	LPF	SS	0-10	0.4	13
ERZ-LPF-0000-1800-2.4	LPF	SS	0-18	0.7	13
ERZ-BPF-0210-0380-1.9	BPF	SS	2.1-3.8	1	15
ERZ-BPF-0350-0610-2.1	BPF	SS	3.5-6.1	1.2	18
ERZ-BPF-0540-1000-3.1	BPF	SS	5.4-10	1.6	10
ERZ-BPF-0920-1800-3.7	BPF	SS	9.2-18	2	10
ERZ-BPF-0530-0610-2.5	BPF	SS	5.3-6.1	2	15
ERZ-BPF-0205-0255-2.2	BPF	SS	2.05-2.55	1.7	15
ERZ-BPF-0920-1000-2.9	BPF	SS	9.2-10	2.5	13
ERZ-BPF-0350-0380-2.4	BPF	SS	3.5-3.8	2.2	18
ERZ-BPF-0900-1100-3.0	BPF	Alumina	9-11	2.1	13
ERZ-HPF-0110-1900-1.1	HPF	LC	1.1-19	0.5	20
ERZ-BPF-0110-1000-2.0	BPF	LC+SS	1.1-10	0.9	13
ERZ-BPF-0110-1750-2.4	BPF	LC+SS	1.1-17.5	1.2	13

Type: BPF: Band Pass Filter
HPF: High Pass Filter
LPF: Low Pass Filter

Technology: SS: Suspended Substrate
LC: Lumped elements

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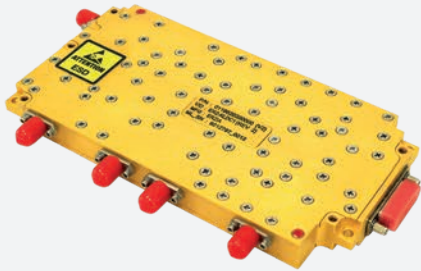


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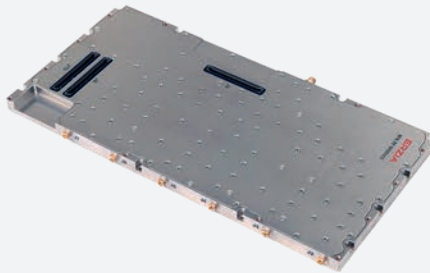
environments involved in space and defense applications such as Electronic Warfare (EW), Signal Intelligence (SIGINT), Radar, Scientific Instrumentation, and Telecommunications.

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For over 15 years, ERZIA has been trusted to deliver high performance solutions to some of the most challenging space expeditions in the world. As a result, we have developed an impressive space heritage. We are proud to have provided state-of-the-art amplifiers, acousto-optic tunable filters (AOTFs), and other unique components that drive the performance of both airborne and ground support equipment.

Our success is measured not only by our list of programs and flights, but also by the fact that we've earned the trust of space agencies like ESA, NASA, CNSA and JAXA, as well as the most respected private contractors in the space industry.

Our flexibility as a smaller, privately-owned design/manufacturer also ensures you'll receive hands-on application support and easy adaptation to the screening and qualification processes you need to meet your mission's exact standards.

So, whether your next mission is to improve a system on an existing space program, or boldly venture into new space missions, you can trust in ERZIA to come through every time.

ERZIA



RELY ON OUR QUALITY

Since day one, it has been ERZIA's objective to earn the confidence of the world's respected defense, space, and commercial communication system suppliers and their customers. We're proud to say that we have achieved this goal by utilizing our ingenuity and microwave engineering expertise, and also by remaining committed to the highest quality standards.

Our quality guidelines are based on European Space Industry ECSS, EN9100, and UNE-EN ISO 9001:2015 standards for the design, development and manufacturing of qualified RF and microwave modules for advanced space, aerospace, defense, and industrial integrations.



ERZIA

WE TAKE YOU FURTHER



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