

ERZIA

PRODUCT GUIDE 2024



Microwave and Millimeter Wave Modules and Subsystems

AMPLIFIERS | SUSPENDED SUBSTRATE FILTERS | SATCOM CONVERTERS | INTEGRATED ASSEMBLIES
EQUALIZERS | MIXERS | SWITCHES



LEVERAGE OUR CAPABILITIES

FACILITIES

ERZIA boasts state-of-the-art laboratories for designing, prototyping, testing, and manufacturing RF & Microwave products. Our facilities include an ISO 7 cleanroom, climate chambers, and the latest microwave test equipment for both prototyping and serial production.

ENGINEERING

ERZIA's team of highly skilled Microwave, Mechanical, and Electronics engineers design and produce world-class products, both for our catalog items and fully customized designs for our clients.

MANUFACTURING

ERZIA's production lines are equipped to build complete RF products and handles even the most demanding designs, including special processes such as die attach, wire bonding, and integration of hybrid circuits.

TESTING

ERZIA not only has the latest RF & Microwave equipment, but also the capability for environmental testing, used for acceptance testing, qualification campaigns, or Environmental Stress Screenings (ESS).

QUALITY

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.



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-0200-0600-12-2	NEW 2-6	12	2	14
ERZ-LNA-0010-0800-34-2.5	NEW 0.1-8	34	2.5	15
ERZ-LNA-0005-1000-30-5.5	0.05-10	31	5	31
ERZ-LNA-0050-1800-18-3.5	0.5-18	18	3	19
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-0100-1800-28-4	1-18	27	3	19
ERZ-LNA-0100-1800-30-2.5	1-18	33	2.5	22
ERZ-LNA-0200-1800-24-1.5	NEW 2-18	24	1.5	13
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-0950-1800-30-3.5	NEW 9.5-18	30	3.5	13
ERZ-LNA-0865-2265-30-3	8.65-22.65	30	3	14
ERZ-LNA-0010-2400-14-4	NEW 0.1-24	14	4	12
ERZ-LNA-0010-2400-30-4	NEW 0.1-24	30	4	12
ERZ-LNA-0200-2400-15-3	NEW 2-24	15	3	16
ERZ-LNA-0200-2400-30-3	NEW 2-24	30	3	16
ERZ-LNA-0000-2500-14-2.5	NEW 0-25	14	2.5	13
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-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-1800-4000-13-2.5	NEW 18-40	13	2.5	12
ERZ-LNA-1800-4000-25-2.5	NEW 18-40	25	2.5	12
ERZ-LNA-1800-4000-15-4	18-40	15	4	18
ERZ-LNA-1800-4000-45-8	18-40	37	5	18
ERZ-LNA-1800-4200-24-6	18-42	24	6	9
ERZ-LNA-2400-4400-23-2.5	NEW 24-44	23	2.5	4
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-0100-0200-10-7	1-2	10	5.5	18
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-0230-0260-40-2	2.3-2.6	40	2.5	19
ERZ-LNA-0270-0310-30-0.5	2.7-3.1	30	0.5	15
ERZ-LNA-0310-0350-30-0.5	3.1-3.5	36	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-0570-0590-50-2	5.7-5.9	50	2	15
ERZ-LNA-0714-0723-40-1	7.14-7.23	40	1	10
ERZ-LNA-0690-0800-30-2.5	6.9-8	30	2.5	20
ERZ-LNA-0400-0800-28-1	4-8	28	1	4
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-0800-1200-10-6	8-12	10	6	11
ERZ-LNA-0800-1220-26-2	8-12.2	26	2	21
ERZ-LNA-0700-1300-21-1	7-13	21	1	10
ERZ-LNA-0700-1300-45-1	7-13	45	1	10
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-1200-1800-50-2	12-18	50	2	19

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-1770-2020-35-1	17.7-20.2	35	1	10
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

Ka-band *Continued*

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-0002-0300-42	0.02-2.5	43	50
ERZ-HPA-0010-0400-25-E	0.1-4	25	30
ERZ-HPA-0010-0400-25	0.1-4	25	20
ERZ-HPA-0002-0600-42 NEW	0.02-6	42	42
ERZ-HPA-0175-0625-43	1.75-6.25	43	43
ERZ-HPA-0200-0800-36	2-8	36	43
ERZ-HPA-0000-1200-26	0-16	27	32
ERZ-HPA-0050-1800-30	0.5-18	30	33
ERZ-HPA-0100-1800-21	1-18	21	14
ERZ-HPA-0100-1800-37 NEW	1-18	37	35
ERZ-HPA-0200-1800-30-E	2-18	30	40
ERZ-HPA-0200-1800-30	2-18	30	33
ERZ-HPA-0200-1800-30-DB9	Feb-18	30	33
ERZ-HPA-0600-1800-40-E	6-18	40	46
ERZ-HPA-0600-1800-24 NEW	6-18	24	20
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-1600-3300-24-E	16-33	24	34
ERZ-HPA-2300-3700-25	23-37	24	20
ERZ-HPA-0050-4000-8	0.5-40	16	15
ERZ-HPA-0050-4000-12	0.5-40	16	28
ERZ-HPA-0020-4000-20 NEW	0.2-40	20	28
ERZ-HPA-2000-4000-24	20-40	24	20
ERZ-HPA-2000-4000-39	20-40	39	40

Wideband *Continued*

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
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
ERZ-HPA-2400-5000-28	24-50	27	25

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
ERZ-HPA-0250-0400-35	NEW 2.5-4	35	36

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
ERZ-HPA-0550-0960-34	NEW 5.5-9.6	34	35

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-0900-1000-56	9-10	56	70
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

K-band

Part Number	Frequency (GHz)	Pout (dBm)	Gain (dB)
ERZ-HPA-1730-2120-44	NEW 17.3-21.2	44	45
ERZ-HPA-1700-2400-34	17-24	34	22

K-band *Continued*

ERZ-HPA-2400-2450-32		24-24.5	33	35
ERZ-HPA-2400-2650-32	NEW	24-26.5	32	35
ERZ-HPA-1500-2700-29-E		15-27	29	34
ERZ-HPA-1500-2700-29		15-27	29	17
ERZ-HPA-2550-2700-37		25.5-27	35	41

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-2900-3100-37-E		29-31	37	38
ERZ-HPA-2900-3100-37		29-31	37	21
ERZ-HPA-2900-3100-46		29-31	46	45
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-3400-3600-40	NEW	34-36	40	45
ERZ-HPA-3100-3700-33-W		31-37	33	18
ERZ-HPA-3100-3700-33		31-37	33	18
ERZ-HPA-3300-3700-40-W	NEW	33-37	38	22
ERZ-HPA-3300-3700-38	NEW	33-37	38	22
ERZ-HPA-3200-3800-40-E		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-2600-4000-33		26-40	33	35
ERZ-HPA-2650-4000-33		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-3750-4250-39	NEW	37.5-42.5	39	40
ERZ-HPA-3300-4500-23		33-45	23	15
ERZ-HPA-4000-4500-28-E		40-45	28	23
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



SATCOM CONVERTERS

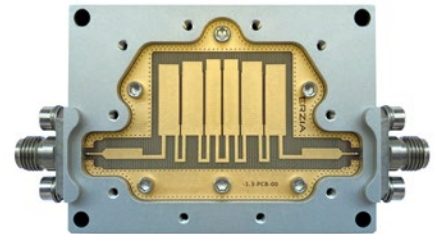
Block Up Converters (BUC)

Part Number	Type	RF Out (GHz)	Psat (dBm)	Plin (dBm)	IF In (MHz)	Gain (dB)
ERZ-BUC-4775-4825-37	V-Band	47,75-48,25	37	34	1250-1750	50
ERZ-BUC-2750-3100-46	Ka-Band	27,5-31	46	43	950-1950	Adjustable 45-75
ERZ-BUC-2750-3100-43	Ka-Band	27,5-31	43	40	950-1950	Adjustable 45-75
ERZ-BUC-0790-0840-43	X-Band	7,9-8.4	43	40	950-1950	Adjustable 45-75

Low Noise Block Downconverter (LNB)

Part Number	Type	RF In (GHz)	NF (dB)	Gain (dB)	IF Out (MHz)	Pout max (dBm)
ERZ-LNB-3750-4250-50-3	Q-Band	37,5-42,5	2.5	Adjustable 45-75	1250-1750	12
ERZ-LNB-1770-2120-75-1.5	Ka-Band	17.7-21.2	1.3	55	950-1950	15

SUSPENDED SUBSTRATE RF/MICROWAVE FILTERS



Part Number	Type	Tech.	Frequency (GHz)	IL typ (dB)	RL typ (dB)
ERZ-BPF-0121-0140-1	BPF	SS	1.21-1.4	1	15
ERZ-BPF-0190-0210-1.8	BPF	SS	1.9-2.1	1.4	18
ERZ-LPF-0000-0250-1.3	LPF	SS	0-2.5	0.4	15
ERZ-BPF-0205-0255-2.2	BPF	SS	2.05-2.55	1.7	15
ERZ-BPF-0170-0260-1.5	BPF	SS	1.7-2.6	1.5	14
ERZ-LPF-0000-0380-1.3	LPF	SS	0-3.8	0.3	20
ERZ-BPF-0350-0380-2.4	BPF	SS	3.5-3.8	2.2	18
ERZ-BPF-0210-0380-1.9	BPF	SS	2.1-3.8	1	15
ERZ-HPF-0210-0480-1.3	HPF	SS	2.1-4.8	0.5	15
ERZ-BPF-0530-0610-2.5	BPF	SS	5.3-6.1	2	15
ERZ-BPF-0350-0610-2.1	BPF	SS	3.5-6.1	1.2	18
ERZ-LPF-0000-0610-1.6	LPF	SS	0-6.1	0.3	20
ERZ-HPF-0350-0690-1.7	HPF	SS	3.5-6.9	0.7	15
ERZ-BPF-0920-1000-2.9	BPF	SS	9.2-10	2.5	13
ERZ-BPF-0110-1000-2	BPF	LC+SS	1.1-10	1	13
ERZ-BPF-0540-1000-3.1	BPF	SS	5.4-10	1.6	10
ERZ-LPF-0000-1000-1.5	LPF	SS	0-10	0.4	13
ERZ-BPF-0900-1100-3	BPF	Alumina	9-11	2	15
ERZ-HPF-0540-1210-1.4	HPF	SS	5.4-12.1	0.8	15
ERZ-BPF-0110-1750-2.4	BPF	LC+SS	1.1-17.5	1.2	13
ERZ-LPF-0000-1800-2.4	LPF	SS	0-18	0.7	13
ERZ-HPF-0280-1800-1.5	HPF	LC	2.8-18	1	15
ERZ-BPF-0920-1800-3.7	BPF	SS	9.2-18	2	10
ERZ-HPF-0930-1870-1.7	HPF	SS	9.3-18.7	1	15
ERZ-HPF-0110-1900-1.1	HPF	LC	1.1-19	0.5	20
ERZ-HPF-1750-4100-2	HPF	SS	1.75-41	1.3	13

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

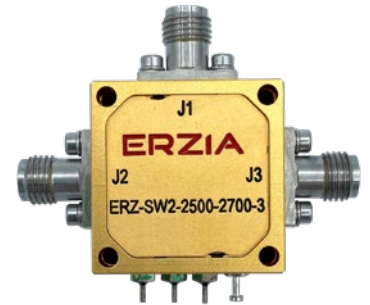
Technology: SS: Suspended Substrate
LC: Lumped elements

EQUALIZERS



Part Number	Frequency (GHz)	Insertion Loss @min freq (dB)	Insertion Loss @max freq (dB)
ERZ-EQU-1800-4000-25	18-40	-23	-3
ERZ-EQU-1800-4000-30	18-40	-25	-3.5
ERZ-EQU-0000-2000-10	0-20	-10	-2
ERZ-EQU-0000-2000-20	0-20	-20	-2.5

SWITCHES



Part Number	Type	Frequency (GHz)	Insertion Loss (dB)	Isolation (dB)	Switching Time (ns)
ERZ-SW2-0030-0300-2	SPDT	0.3-3	1.5	65	450
ERZ-SW2-0010-0300-0.5	SPDT	0.1-5	0.7	25	40
ERZ-SW2-0200-1000-2.5	SPDT	2-10	1.5	80	25
ERZ-SW1-0200-1000-2.5	SPST	2-10	1.5	80	40
ERZ-SW5-0010-1800-3.5	SP5T	0.1-18	3.5	45	75
ERZ-SW1-0001-2000-1.5	SPST	0.01-20	1.5	45	40
ERZ-SW2-0010-2000-3	SPDT	0.1-20	3	60	40
ERZ-SW2-0100-2600-3	SP2T	1-26	3	38	40
ERZ-SW3-2500-2700-3	SP3T	25-27	3	30	40
ERZ-SW2-0001-2800-2.5	SPDT	0.01-28	2.5	40	40
ERZ-SW4-0010-3000-5	SP4T	0.1-30	3.5	50	50
ERZ-SW3-0001-3800-2	SP3T	0.01-38	2	35	50
ERZ-SW2-0000-4000-3.5	NEW SPDT	0-40	3.5	40	40
ERZ-SW4-0100-4200-4	SP4T	1-42	4	40	50

MIXERS



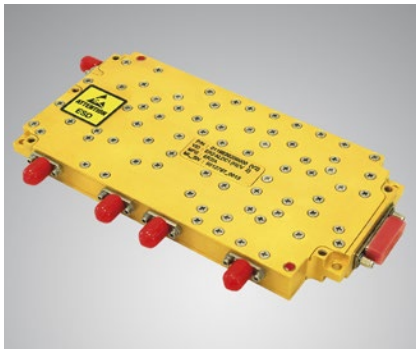
Part Number	RF/LO Frequency (GHz)	IF Frequency (GHz)	LO Power (dBm)	Conversion Loss (dB)
ERZ-MIX-0200-1200-10	2-12	0-3	15	10
ERZ-MIX-0500-1400-8	5-14	0.04-0.08	20	9
ERZ-MIX-0500-1500-8.5	NEW 5-15	0-2.5	14	8
ERZ-MIX-0200-2200-10	NEW 2-20	0-3.5	10	10
ERZ-MIX-0300-3000-10	NEW 3-30	0-5	23	7
ERZ-MIX-1000-4400-10	10-44	0-14	16	10
ERZ-MIX-1800-5000-10	18-50	0-20	16	10

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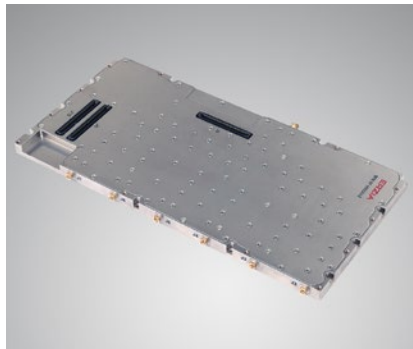
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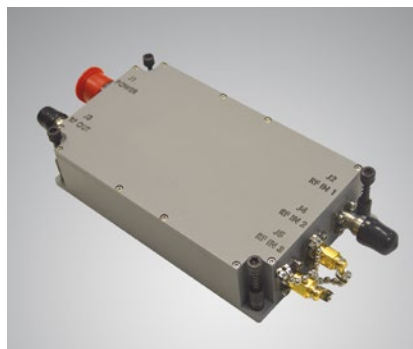
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ERZIA Technologies
Josefina de la Maza 4
39012 Santander, Spain
Telephone: +34 942 29 13 42



ERZIA Technologies of America
1800 Diagonal Road, Suite 600
Alexandria, VA 22314
Telephone: +1 703-373-1946
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sales@erzia.com | www.erzia.com



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