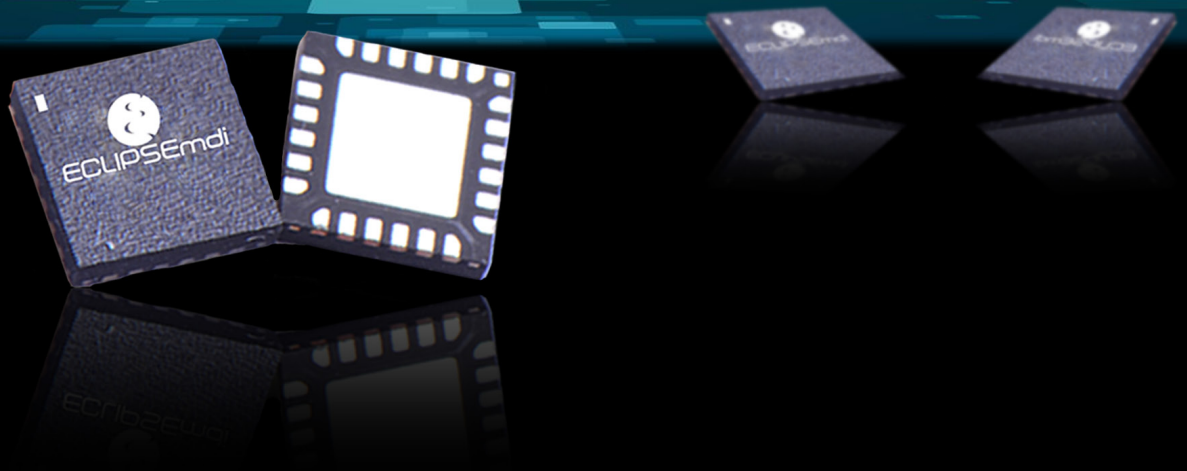




MMICs Detectors Limiters

Short Form Catalog



Amplifier Products

Our selection of RF MMIC amplifiers offer many combinations of output power, gain, noise figure and linearity, as well as surface mount packages, connectorized modules and bare die.

GaAs PHEMT MMICs

Low Noise Distributed Amplifiers

	Frequency Range	Gain	Noise Figure	P1dB	Psat	OIP3	Bias Supply	
Model Number	GHz	dB Typ.	dB Typ.	dBm Typ.	dBm Typ.	dBm Typ.	V/mA	Package
EMD1710	2.0 - 20	12.5	2.0	+18.5	+19.0	+28.0	5/83	QFN 4mm
EMD1715	DC - 20	14.5	1.8	+20.5	+23.5	+28.0	5/103	QFN 4mm
EMD1725-D	DC - 40	15.0	3.5	+20.5	+23.0	+33.0	8/108	DIE



Scan here

Features

- +5 or +8 volts supply
- Low noise figure
- Broadband frequency response
- High output intercept point
- Low cost QFN 4mm leadless RoHS package
- Hermetically sealed
- Excellent VSWR
- Die available upon request

Applications

- General purpose
- Commercial and industrial
- Microwave radio & VSAT
- Test instrumentation
- Telecom & fiber optics

Product Export Classification

- ECCN: EAR 99 (Unless otherwise specified)
- HTS: 8542330000

Driver Amplifiers

	Frequency Range	Gain	Noise Figure	P1dB	Psat	OIP3	Bias Supply	
Model Number	GHz	dB Typ.	dB Typ.	dBm Typ.	dBm Typ.	dBm Typ.	V/mA	Package
EMD1705	DC - 20	15.0	7.5	+24.0	+25.0	+28.0	8/190	QFN 4mm
EMD1706	DC - 24	15.0	6.5	+22.0	+23.5	+28.0	8/130	QFN 4mm



Scan here

Features

- Up to +24 dBm P1dB
- +8 Volts supply
- 15 dB gain typical
- Broadband frequency response
- Low Cost QFN 4mm leadless RoHS package
- Hermetically sealed
- Excellent VSWR
- Die available upon request

Applications

- General purpose
- Commercial and industrial
- Microwave radio & VSAT
- Test instrumentation
- Telecom & fiber optics

Product Export Classification

- ECCN: EAR 99 (Unless otherwise specified)
- HTS: 8542330000

Power Amplifiers

	Frequency Range	Gain	P1dB	Psat	OIP3	Bias Supply
Model Number	GHz	dB Typ.	dBm Typ.	dBm Typ.	dBm Typ.	V/mA Package
EMD1211-D	DC - 20	13.0	+28.0	+30.5	+38.0	12/300 DIE

Features

- 13 dB gain typical
- +28.0dBm typical P1dB
- +30.5dBm Psat
- Low Cost QFN 4mm leadless RoHS package
- Hermetically sealed
- Die available upon request

Applications

- General purpose
- Commercial and industrial
- Production test
- Test instrumentation

Product Export Classification

- ECCN: EAR 99 (Unless otherwise specified)
- HTS: 8542330000





DETECTOR AND LIMITER PRODUCTS

Detector and Limiter Products

Schottky detector products include a broad range of devices that extend from 100 MHz to 18 GHz. PIN Schottky limiters offer wide frequency response, low insertion loss and low VSWR in hermetically sealed QFN 4mm packages.

ZBD SCHOTTKY DETECTORS

Network Matched

Model Number	Frequency Range (GHz)	Voltage Sensitivity mV/mW dB	VSWR Typ.	Flatness dB Typ.	Tss dBm	Video Cap dBm Typ.
EZM0140QFN4	0.1 - 4.0	500	1.5	0.8	-	20
EZM0112QFN4	0.1 - 12.0	500	1.8	1.0	-	20
EZM0118QFN4	0.1 - 18.0	400	2.5	2.0	-	20
EZM2040QFN4	2.0 - 4.0	500	1.5	0.6	-	20
EZM2080QFN4	2.0 - 8.0	500	1.5	0.8	-	20
EZM2018QFN4	2.0 - 18.0	400	2.5	1.0	-	20



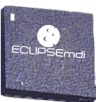
Scan here

High Sensitivity

Model Number	Frequency Range (GHz)	Voltage Sensitivity mV/mW dB	VSWR Typ.	Flatness dB Typ.	Tss dBm	Video Cap dBm Typ.
EZR0120QFN4	0.1 - 2.0	1800	-	1.0	-50	20
EZR0140QFN4	0.1 - 4.0	1200	-	1.2	-48	20
EZR0112QFN4	0.1 - 12.0	1000	-	1.5	-45	20
EZR0118QFN4	0.1 - 18.0	800	-	2.0	-42	20
EZR2040QFN4	2.0 - 4.0	2000	-	0.8	-48	20
EZR2080QFN4	2.0 - 8.0	1800	-	1.0	-48	20
EZR2018QFN4	2.0 - 18.0	1000	-	1.5	-42	20



Scan here



Features

- (-) Negative polarity standard
- Dynamic range: -25 to +10 dBm
- CW application
- Broadband frequency response
- Low Cost QFN 4mm leadless RoHS package
- Hermetically sealed

Maximum Rating and Test Conditions

- Maximum input power: +20 dBm
- Operating temperature range: -45°C to +95°C
- Storage temperature range: -65°C to +125°C

Product Export Classification

- ECCN: EAR 99 (Unless otherwise specified)
- HTS: 8541.10.0000

ESL LIMITERS

PIN Schottky Diodes

Model Number	Insertion Loss dB typ.	VSWR typ.	Maximum Leakage Power (dBm)	
			CW	Peak
ESL0510QFN4	0.4	1.5	+19	+23
ESL1020QFN4	0.6	1.8	+19	+23
ESL2040QFN4	0.8	1.8	+16	+20
ESL2080QFN4	1.5	2.0	+16	+23
ESL4080QFN4	1.8	2.0	+16	+20
ESL0580QFN4	1.8	2.2	+19	+23



Scan here

Features

- Dynamic range: -25 to +10 dBm
- Broadband frequency response
- Hermetically sealed
- (-) Negative polarity standard
- CW application
- Low cost QFN 4mm leadless RoHS package

Maximum Rating and Test Conditions

- Operating temperature range: -45°C to +95°C
- Storage temperature range: -65°C to +125°C

Product Export Classification

- ECCN: EAR 99 (Unless otherwise specified)
- HTS: 8541.10.0000



A World of Communications

MMICs

DETECTORS

LIMITERS

follow us on

