

RF & Microwave Products for Aerospace & Defense



New Products for Aerospace and Defense

June

2019

Aerospace and Defense

Electronic Warfare

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010572-TR1000	MACOM Technology Solutions	6000		18000				1.065				
Buy Now pdf	MACP-010572-TR1000	MACOM Technology Solutions	6000		18000				1.065				
Buy Now pdf	MACP-010573-TR1000	MACOM Technology Solutions	10000		30000				1.433				
Buy Now pdf	MACP-010573-TR1000	MACOM Technology Solutions	10000		30000				1.433				
Buy Now pdf	MADT-011000-TR1000	MACOM Technology Solutions	5000		44000				1.433			15	
Buy Now pdf	MADT-011000-DIE	MACOM Technology Solutions	5000		44000				1.671			15	
Buy Now pdf	MADT-011000-TR1000	MACOM Technology Solutions	5000		44000				1.433			15	

Aerospace and Defense

Electronic Warfare

Semiconductors - ICs

Multi-Function ICs

Multi-Function Transceiver

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Input P1dB	dBm	Supply Voltage	VDC	Supply Current	mA	Output Power	dBm
Buy Now pdf	ADRV9008BBCZ-1	Analog Devices, Inc. (ADI)	75		6000				1.8		68			
Buy Now pdf	ADRV9008BBCZ-2	Analog Devices, Inc. (ADI)	75		6000				1.8		68			
Buy Now pdf	ADRV9009BBCZ	Analog Devices, Inc. (ADI)	75		6000				1.8		30		9	

RF Amplifiers

Amplifiers - RF & Microwave

RF & MW LNA

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Gain	dB	Gain Flatness	dB	Noise Figure	dB
Buy Now pdf	MAAL-011141-TR0500	MACOM Technology Solutions	GaAs	0		28000		17.5				1.5	
Buy Now pdf	MAAL-011141-DIE	MACOM Technology Solutions	GaAs	0		28000		17				1.6	
Buy Now pdf	MAAL-011141-TR0500	MACOM Technology Solutions	GaAs	0		28000		17.5				1.5	
Buy Now pdf	MAAL-011151-DIE	MACOM Technology Solutions		2000		18000		16				5	

RF & MW Power Amplifier

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Gain	dB	Gain Flatness	dB	Efficiency	%
Buy Now pdf	MMA027AA	Microsemi		0		30000		10.5		1.5			

Aerospace and Defense

Electronic Warfare

Semiconductors - ICs

Switches

RF and Microwave Switch

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Configuration (SPST, SPDT, ...)	Matching (Non-Reflective)	Insertion Loss	dB
Buy Now pdf	ADRF5027BCCZN-R7	Analog Devices, Inc. (ADI)	MMIC	0.009		44000		SPDT	Absorptive (Non-Reflective)	1.9	
Buy Now pdf	MASW-011102-TR0500	MACOM Technology Solutions	MMIC	0		30000		SPDT	Absorptive (Non-Reflective)	1.4	
Buy Now pdf	MASW-011102-TR0500	MACOM Technology Solutions	MMIC	0		30000		SPDT	Absorptive (Non-Reflective)	1.4	
Buy Now pdf	MASW-011105-TR0500	MACOM Technology Solutions	MMIC	17700		31000		SPDT	Reflective	1.6	
Buy Now pdf	MASW-011105-TR0500	MACOM Technology Solutions	MMIC	17700		31000		SPDT	Reflective	1.6	
Buy Now pdf	MASW-011107-DIE	MACOM Technology Solutions	MMIC	0		26500		SPDT	Absorptive (Non-Reflective)	1.1	

Aerospace and Defense

Electronic Warfare

Frequency Control

Oscillators

Oscillator VCO

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Phase Noise @ ~ offset (dBc/Hz)	dBc/Hz	Tuning Sensitivity	MHz/V	Tuning Voltage	VDC	Output Power	dBm
Buy Now pdf	MAOC-110820-TR0500	MACOM Technology Solutions	10550		11050		-113		130		1.5-12.5		11	
Buy Now pdf	MAOC-110820-TR0500	MACOM Technology Solutions	10550		11050		-113		130		1.5-12.5		11	
Buy Now pdf	MAOC-111100-TR0500	MACOM Technology Solutions	10800		11415		-113		130		1.5-12.5		11	
Buy Now pdf	MAOC-111100-TR0500	MACOM Technology Solutions	10800		11415		-113		130		1.5-12.5		11	
Buy Now pdf	MAOC-112675-TR0500	MACOM Technology Solutions	12200		13150		-109		250		1.5-12.5		8	
Buy Now pdf	MAOC-112675-TR0500	MACOM Technology Solutions	12200		13150		-109		250		1.5-12.5		8	
Buy Now pdf	MAOC-113100-TR0500	MACOM Technology Solutions	12500		13700		-109		250		1.5-12.5		8	
Buy Now pdf	MAOC-113100-TR0500	MACOM Technology Solutions	12500		13700		-109		250		1.5-12.5		8	
Buy Now pdf	MAOC-113900-TR0500	MACOM Technology Solutions	13400		14400		-109		180		1.5-12.5		8	
Buy Now pdf	MAOC-113900-TR0500	MACOM Technology Solutions	13400		14400		-109		180		1.5-12.5		8	

Aerospace and Defense

Electronic Warfare

Frequency Control

RF Mixer

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Minimum Frequency	MHz	Maximum Frequency	MHz	Minimum Frequency	MHz
Buy Now pdf	MAMX-011036-TR0100	MACOM Technology Solutions		8000		43000		8000		43000		0	
Buy Now pdf	MAMX-011036-DIE	MACOM Technology Solutions		8000		43000		8000		43000		0	
Buy Now pdf	MAMX-011036-TR0100	MACOM Technology Solutions		8000		43000		8000		43000		0	
Buy Now pdf	MAMX-011037-DIE	MACOM Technology Solutions		18000		46000		18000		46000		0	

New Products for Aerospace and Defense

June

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Communications

(2-30 MHz) HF

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

Communications

(2-30 MHz) HF

Semiconductors - Discretes

Transistors

RF Power Transistor

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	P1dB	W	P3dB	W	Gain	dB
Buy Now pdf	MRF1K50GNR5	NXP Semiconductors	LDMOS	1.8		500						23	
Buy Now pdf	MRF1K50HR5	NXP Semiconductors	LDMOS	1.8		500						23.7	
Buy Now pdf	MRF1K50NR5	NXP Semiconductors	LDMOS	1.8		500						23	

Communications

(30-512 MHz) Band I

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

RF Amplifiers

Amplifiers - RF & Microwave

RF & MW LNA

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Gain	dB	Gain Flatness	dB	Noise Figure	dB
Buy Now pdf	GRF2140	Guerrilla RF	GaAs	100		3800		17.8				1.1	
Buy Now pdf	GRF2140	Guerrilla RF	GaAs	100		3800		17.8				1.1	

Communications

(30-512 MHz) Band I

Semiconductors - Discretes

Transistors

RF Power Transistor

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	P1dB	W	P3dB	W	Gain	dB
Buy Now pdf	MRF1K50GNR5	NXP Semiconductors	LDMOS	1.8		500						23	
Buy Now pdf	MRF1K50HR5	NXP Semiconductors	LDMOS	1.8		500						23.7	
Buy Now pdf	MRF1K50NR5	NXP Semiconductors	LDMOS	1.8		500						23	

Communications

(500-2500 MHz) Band II

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

RF Amplifiers

Amplifiers - RF & Microwave

RF & MW LNA

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Gain	dB	Gain Flatness	dB	Noise Figure	dB
Buy Now pdf	GRF2140	Guerrilla RF	GaAs	100		3800		17.8				1.1	
Buy Now pdf	GRF2140	Guerrilla RF	GaAs	100		3800		17.8				1.1	

New Products for Aerospace and Defense

June

2019

Jammers

(30-512 MHz) VHF/UHF

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

New Products for Aerospace and Defense

June

2019

Jammers

(500-2500 MHz) L/S Band

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

New Products for Aerospace and Defense

June

2019

Jammers

(2500-6000 MHz) S/C Band

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

New Products for Aerospace and Defense

June

2019

Radar (Including Commercial)

(1200-1400 MHz) L Band

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

Switches

RF and Microwave Switch

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Configuration (SPST, SPDT, ...)	Matching (Non-Reflective)	Insertion Loss	dB
Buy Now pdf	ADRF5160BCPZ-R7	Analog Devices, Inc. (ADI)	MMIC	700		4000		SPDT	Reflective	0.8	

Radar (Including Commercial)

(1200-1400 MHz) L Band

Semiconductors - Discretes

Diodes

RF Diodes

RF PIN Diode

	Mfg Part Number	Supplier	Diode Configuration	Minimum Frequency	MHz	Maximum Frequency	MHz	Vr (Reverse Voltage)	VDC	Total Capacitance	pF	Rs (Series Resistance)	Ω
Buy Now pdf	MADP-011104-TR3000	MACOM Technology Solutions	Single Shunt-Diode	50		5000				0.45			
Buy Now pdf	MADP-011104-TR0500	MACOM Technology Solutions	Single Shunt-Diode	50		5000				0.45			

New Products for Aerospace and Defense

June

2019

Radar (Including Commercial)

(2700-3500 MHz) S Band

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

Switches

RF and Microwave Switch

	Mfg Part Number	Supplier	Technology	Minimum Frequency	MHz	Maximum Frequency	MHz	Configuration (SPST, SPDT, ...)	Matching (Non-Reflective)	Insertion Loss	dB
Buy Now pdf	ADRF5160BCPZ-R7	Analog Devices, Inc. (ADI)	MMIC	700		4000		SPDT	Reflective	0.8	

Radar (Including Commercial)

(2700-3500 MHz) S Band

Semiconductors - Discretes

Diodes

RF Diodes

RF PIN Diode

	Mfg Part Number	Supplier	Diode Configuration	Minimum Frequency	MHz	Maximum Frequency	MHz	Vr (Reverse Voltage)	VDC	Total Capacitance	pF	Rs (Series Resistance)	Ω
Buy Now pdf	MADP-011104-TR3000	MACOM Technology Solutions	Single Shunt-Diode	50		5000				0.45			
Buy Now pdf	MADP-011104-TR0500	MACOM Technology Solutions	Single Shunt-Diode	50		5000				0.45			

New Products for Aerospace and Defense

June

2019

Radar (Including Commercial)

(4000-6000 MHz) C Band

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				
Buy Now pdf	MACP-010571-TR1000	MACOM Technology Solutions	2000		6000				1.065				

New Products for Aerospace and Defense

June

2019

Radar (Including Commercial)

(8000-10500 MHz) X Band

Semiconductors - ICs

Detector/Controller

	Mfg Part Number	Supplier	Minimum Frequency	MHz	Maximum Frequency	MHz	Flatness	dB	VSWR (~:1)	Sensitivity	mV/d Bm	Input Power	dBm
Buy Now pdf	MACP-010572-TR1000	MACOM Technology Solutions	6000		18000				1.065				
Buy Now pdf	MACP-010572-TR1000	MACOM Technology Solutions	6000		18000				1.065				