

Advanced Microwave, Inc.
 1503 N. Milpitas Blvd.
 Milpitas, CA 95035
 Tel: (408) 649-3566
sales@advmic.com
www.advmic.com

This catalog contains a listing of Advanced Microwave Inc. military and commercial products. This is an interactive catalog with page links to specific products and product details. If you are unable to find a specific product or have questions, please call us 408.649.3566, or email our sales Department at sales@advmic.com.

Mixers			
Series	Frequency (GHz)		Conversion Loss (dB) typ.
	LO/RF	IF	
Double Balance Mixers			
M3X01	4.0 – 22.0	DC – 4.0	5.0 – 10.0
M3X05	5.0 – 22.0	DC – 5.0	5.0 – 10.0
M3XX4X	2.0 – 18.0	DC – 2.0	5.5 – 9.0
M3X08	6.5 – 46.0	DC – 21.0	7.0 – 15.0
Triple Balance Mixers			
M3X02	2.0 – 20.0	0.1 – 8.0	6.5 – 12.0
M3X06	2.0 – 26.0	0.1 – 8.0	6.5 – 13.0
Modulators/IR Mixers			
MQ3X31	1.7 – 18.0	DC – 0.5	6.0 – 9.0
MI3X32	18.0 – 32.0	DC – 4.0	7.0 – 10.0
MQ3X33	18.0 – 32.0	DC – 4.0	7.0 – 10.0
MI3X310X	2.0 – 18.0	0.02 – 0.2	7.0 – 10.0
MI3X31	2.0 – 18.0	0.03 – 0.7	9.0 – 10.0

Multipliers/Doublers			
Series	Frequency (GHz)		Conversion Loss, Fundamental (dB)
	Input	Output	
MD3X4X	2.0 – 7.0	4.0 – 14.0	9.0 – 12.0
MD3X5X	3.0 – 17.0	6.0 – 34.0	8.0 – 14.0

Amplifiers				
Series	Frequency Range (GHz)	Gain Range (dB)	Output Power Range (dBm)	Noise Figure (dB)
Wide-Band Amplifiers				
WA20XX	0.5 – 8.0	8.0 – 45	15 – 23	2.0 – 3.0
Wide-Band Low-Noise Amplifiers				
WLA6XX	1.0 – 40.0	14 – 55	1.0 – 13	1.2 – 6.0
Positive Slope Amplifiers				
WEAXXX	2.0 – 26.0	20 – 45	11 – 24	5.0 – 10.0
Wide-Band Power Amplifiers				
WPA2XX	0.1 – 40.0	18 – 40	22 – 33	4.5 – 8.0
WPA4XX	2.0 – 40.0	22 – 45	20 – 43	5.0 – 8.0
Power Amplifiers				
PA20XX	0.5 – 11.0	12 – 30	27 – 31	5.0 – 8.0
PA2X0X	1.5 – 12.0	17 – 36	34 – 43	5.0 – 8.0
AC Input Power Amplifiers				
WPAC263P	0.1 – 22.0	34 – 38	30 – 32	3 – 5
WPAC413PP	2 – 18	30 – 34	35 – 37	3 – 5
Mini Amplifiers				
AMXXXX	0.1 – 50	25 – 35	10 – 32	2 – 7

Detector Series					
Series	Title	Freq. Range (GHz)	K Factor mV/mW	TSS (dBm)	Size (cu.in)
TD500X	Tunnel Detectors	0.1 – 40	500-800	-47	0.04
TL500X	Tunnel Limiter Detectors	0.1 – 18	500-800	-46	0.04
BSD100X	Biased/Schottky	0.1 – 40	1600	-50	0.04
ZSDXXX	Zero Biased Schottky	0.01 – 40	500	-48	0.04

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Zero Biased Tunnel Detector				
Model	Frequency (GHz)	Input VSWR	Output Flatness (dBm) max	Max Input Power (dBm)
TD5010T	47.0 – 51.6	2.0:1	+/- 0.8	20

Limiter Series					
Series	Frequency (GHz)	Loss (dB)	Leakage	Power CW Max. (dBm)	Peak Power Max. (dBm)
LD200X	0.1 – 26.0	0.5	18	30	50
LD201X	0.1 – 18.0	1.2	23	40	57

Up/Down Converters / BUC Converters	
Model/Series	Description
MA302X	Mixer/amp up or down converter with a wide-band IF frequency.
MA3006-2X	Mixer/amp up or down converter with a wide-band IF frequency.
MA3X5X	Single side band modulator.
TX22UUUC	Universal C, X, & KU band up converter.
RX22UUDC	Universal C, X, & KU band down converter.
KTX32UUUC	Universal Ka, & K band up converter.
KRX32UUDC	Universal Ka, & K band down converter.
TX4xxxxS	Block Up Converter (BUC), Fixed Synthesizer
TX5xxxxS	Block Up Converter (BUC), Programmable Synthesizer
RX321416S-1	Down Converter (BDC), with Internal Synthesizer
RX4xxxxS	Block Down Converter (BDC), Fixed Synthesizer
RX5xxxxS	Block Down Converter (BDC), Programmable Synthesizer
CCNWS0218AR	2-18 GHz Microwave Tuner/Receiver
CCNWS0218AT	2-18 GHz Microwave Transmitter/Up Converter

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Threshold Detectors					
Model	Frequency Range (GHz)	Dynamic Range (dBm)	Prop. Delay (nsec.)	Power Supply (V)	Size (cu.in)
TH0518-C	0.5 – 18	-30 – +10	15	±12 – ±15	0.125
TH0518-S-C	0.5 – 18	-30 – +10	1000	±12 – ±15	0.125
THA0518-C	0.5 – 18	-40 – +10	15	±12 – ±15	0.185
THF0518-C	0.5 – 18	-19 – +10	3	±12 – ±15	0.125
THAF0518-C	0.5 – 18	-40 – +10	3	±12 – ±15	0.185
DA0518-C	0.5 – 18	-33 – 0	10	±12 – ±15	0.125
DA1840-C	18 – 40	-30 – 0	10	±12 – ±15	0.125
DAA0518-C	0.5 – 18	-42 – -5	10	±12 – ±15	0.185
THA1840-C	18 – 40	-31 – +10	15	±12 – ±15	0.185
THAF1840-C	18 – 40	-26 – +10	3	±12 – ±15	0.185
THAHS0518-C	0.5 – 18	-65 – +10	25	±12 – ±15	0.185
THAS0540-C	0.5 – 40	-40 – +10	12	5	0.185
THAS0540-2-C	0.25 – 0.75	-40 – +10	15	5	0.185

Detector Log Amplifiers						
Model	Frequency Range (GHz)	Dynamic Range (dBm)	Rise Time (nsec.)	Log Accuracy (dB)	Signal Acceptance	Size (cu.in)
DLA0518-C	0.5 – 18	-40 – +10	20	±0.6	CW & Pulse	0.21
DLA0518-19-C	8.0 – 12	-35 – +10	20	±0.6	CW & Pulse	0.21
DLA0518-27A-C	1.9 – 4.2	-40 – 0	50	±0.6	CW & Pulse	
DLAA05R40E-1-C	0.5 – 40	-43 – 2	30	±1	CW & Pulse	
DLAA2R40E-1A-C	2.0 – 40	-47 – 3	30	±1	CW & Pulse	
DLA0518-02-C	0.5 – 18	-40 – +10	20	±0.6	Pulse Only	0.21
SDLA0212-C	0.2 – 1.2	-60 – 0	20	±2.0	CW & Pulse	0.125
ERDLA16-C	1 – 6	-70 – +5	20	±1.5	CW & Pulse	0.88
ERDLA16-02-C	1 – 6	-70 – +5	20	±1.5	CW & Pulse	0.88
ERDLA618-C	6 – 18	-68 – +5	20	±2.3	CW & Pulse	0.88
ERDLA618-02-C	6 – 18	-68 – +5	20	±2.0	CW & Pulse	0.88
ERDLA118-C	1 – 18	-68 – +5	20	±2.7	CW & Pulse	0.88
ERDLA118-02-C	1 – 18	-68 – +5	20	±2.2	Pulse Only	0.88
ERDLA118E-C	1 – 18	-65 – +5	20	±2.5	CW & Pulse Switchable	1
ERDLA1826-C	18 – 26	-65 – +5	20	±2.7	CW & Pulse	0.88
DLAAXXXX-C	0.3 – 18	-54 – -5	20	±1.0	CW & Pulse	0.25
ERDLA1840-C	18 – 40	-63 – +2	20	±1.5	CW and Pulse	0.75
ERDLA184002-C	18 – 40	-63 – +2	20	±1.5	Pulse Only	0.75
SDLAC112802A-C	1 – 18	-68 – +5	9	±2.0	Pulse Only	0.77
SDLAC182702A-C	18 – 27	-70 – 0	9	±1.5	Pulse Only	0.77
SDLA1128B-C	1 – 18	-68 – +5	9	±2.0	CW and Pulse	0.77
SDLA1216-1-C	6-Feb	-70 – +10	10	±2.0		
SDLAC050602B-C	0.5 – 6	-77 – 0	10	±2.0	Pulse Only	0.82
SDLAC112802A-300-C	1 – 18	-70 – +5	10	±2.0	Pulse Only	0.77
SDLAC122802A-C	2 – 18	-70 – +5	10	±2.0	Pulse Only	0.77
SDLAC21802B-C	2 – 18	-75 – 0	10	±2.0	Pulse Only	0.82
SRRDLA21802-C	2 – 18	-75 – +10	12	±2.5	Pulse/CW	0.97

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Passive Component Products	
Model/Series	Description
PD43218	Power Divider/Combiner
C43XXX	Wideband 90° Coupler

Networked Radar Receivers					
Series	# Vid In	I/O Support	AC Input	Regulated Output	
RRNS10-C	1	RJ45 Ethernet	90 – 260V AC	12	700 mA
				-12	250 mA
DFRNS60-C	6	RJ45 Ethernet	90 – 260V AC	12	6:00 AM
				-12	800 mA

Pulse Modulators							
Series	Frequency (GHz)	Insertion Loss (dB)	Isolation (dB)	VSWR	Pulse Response (nsec.)	DC Supply	Size (cu.in)
SPST0XXX-C	2 - 18	2 - 3	55 - 60	2.0:1	12 - CW	±12V	0.12
SPST0XXXA-C	2 - 18	3 - 5.5	70 - 80	2.3:1	15 - CW	±12V	0.12

Comb Generator	
Model	
MUL036	Please click the Model number to see the complete technical details
MULR518-1	Please click the Model number to see the complete technical details