



Mini-Circuits Patent Guide

Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent
ADC-10-1R	6,133,525	ADE-R12MH	6,133,525	AMP-3G	6,943,629	GVA-83	6,943,629	LFCN-5500	6,943,646
	6,140,887	ADE-R18WLH	6,133,525	AMT-2	6,133,525	GVA-84	6,943,629	LFCN-575	6,943,646
ADC-10-4	6,133,525	ADE-R1LH	6,133,525	BDCA-10-25	7,049,905	HFCN-2700A	7,760,485	LFCN-5850	6,943,646
	6,140,887	ADE-R1LH	6,133,525	BDCA-15-25	7,049,905	HFCN-3100	7,760,485	LFCN-6000	6,943,646
ADC-10-4-75	6,133,525	ADE-R1MHW	6,133,525	BDCA-16-30	7,049,905	HFCN-3500	7,760,485	LFCN-630	6,943,646
	6,140,887	ADE-R20	6,133,525	BDCA-6-16	7,049,905	HFCN-3800	7,760,485	LFCN-6400	6,943,646
ADC-10-4-75R	6,133,525	ADE-R20LH	6,133,525	BDCA-7-25	7,049,905	HFCN-4400	7,760,485	LFCN-6700	6,943,646
	6,140,887	ADE-R272MH	6,133,525	BDCA1-10-40	7,049,905	HFCN-4600	7,760,485	LFCN-7200	6,943,646
ADC-12-4-75	6,133,525	ADE-R2ASK	6,133,525	BDCA1-6-11	7,049,905	HFCN-5050	7,760,485	LFCN-80	6,943,646
	6,140,887	ADE-R2ASKLH	6,133,525	BDCA1-6-22	7,049,905	HFCN-5500	7,760,485	LFCN-900	6,943,646
ADC-12-7550	6,133,525	ADE-R30W	6,133,525	BDCA1-7-33	7,049,905	HFCN-7150	7,760,485	LFCN-95	6,943,646
	6,140,887	ADE-R30WLH	6,133,525	DBTC-10-4-75	6,140,887	HFCN-8400	7,760,485	MACA-63H	7,027,795
ADC-15-4	6,133,525	ADE-R35LH	6,133,525		6,784,521	HJK-3H	6,807,407	MACA-242H	7,027,795
	6,140,887	ADE-R3GLH	6,133,525	DBTC-12-4	6,140,887	HJK-2911H	6,807,407	MAN-1	6,943,629
ADC-15-4-75	6,133,525	ADE-R5LH	6,133,525		6,784,521	HJK-72LH	6,807,407	MAN-11AD	6,943,629
	6,140,887	ADE-R6	6,133,525	DBTC-13-4	6,140,887	HJK-212H	6,807,407	MAN-1AD	6,943,629
ADC-16-4-75	6,133,525	ADE-R6LH	6,133,525		6,784,521	HJK-212LH	6,807,407	MAN-1HLN	6,943,629
	6,140,887	ADE-R901	6,133,525	DBTC-13-5-75	6,140,887	HJK-U151H	6,807,407	MAN-1LN	6,943,629
ADC-18-4-75	6,133,525	ADE-R901LH	6,133,525		6,784,521	HJK-U232H	6,807,407	MAN-2	6,943,629
	6,140,887	ADEX-10	6,133,525	DBTC-16-5-75	6,140,887	JTOS-1750	6,549,084	MAN-2AD	6,943,629
ADC-18-4-75R	6,133,525		6,947,717		6,784,521	JTOS-1950	6,549,084	MAR-1SM	6,943,629
	6,140,887	ADEX-10H	6,133,525	DBTC-17-5	6,140,887	JTOS-2000	6,549,084	MAR-2SM	6,943,629
ADC-20-12	6,133,525		6,947,717		6,784,521	JTOS-2700V	6,549,084	MAR-3SM	6,943,629
	6,140,887	ADEX-10L	6,133,525	DBTC-18-4-75	6,140,887	JYDC-23-1HP	6,140,887	MAR-4SM	6,943,629
ADC-20-4	6,133,525		6,947,717		6,784,521	JYDC-7-1HP	6,140,887	MAR-7SM	6,943,629
	6,140,887	ADEX-R10	6,133,525	DBTC-20-4	6,140,887	KBA-20	5,534,830	MAR-8ASM	6,943,629
ADC-20-4-75	6,133,525		6,947,717		6,784,521	KBA-40	5,534,830	MAX-19H	6,959,180
	6,140,887	ADEX-R10LH	6,133,525	DBTC-20-4-75	6,140,887	LAVI-10VH	6,807,407	MAX-9H	6,959,180
ADC-20-4-75R	6,133,525		6,947,717		6,784,521	LAVI-17VH	6,807,407	MBA-10L	5,534,830
	6,140,887	ADP-2-1	6,133,525	DBTC-6-4-75	6,140,887	LAVI-22VH	6,807,407	MBA-12	5,534,830
ADC-25-4-75	6,133,525		6,133,525		6,784,521	LAVI-23VH	6,807,407	MBA-15L	5,534,830
	6,140,887	ADP-2-10	6,133,525	DBTC-9-4	6,140,887	LAVI-25VH	6,807,407	MBA-15LH	5,534,830
ADC-26-52	6,133,525		6,133,525		6,784,521	LAVI-252H	6,807,407	MBA-15MH	5,534,830
	6,140,887	ADP-2-10-75M	6,133,525	ELS-1300	6,479,977	LAVI-252VH	6,807,407	MBA-18LH	5,534,830
ADC-26-52	6,133,525		6,133,525		6,479,977	LAVI-2VH	6,807,407	MBA-25L	5,534,830
ADC-6-10-75	6,133,525		6,133,525	ELS-210	6,479,977	LAVI-362VH	6,807,407	MBA-25LH	5,534,830
	6,140,887	ADP-2-1W	6,133,525	ELS-450	6,479,977	LAVI-711H	6,807,407	MBA-25MH	5,534,830
ADC-6-13	6,133,525		6,133,525	ELS-950	6,479,977	LAVI-9VH	6,807,407	MBA-26	5,534,830
	6,140,887	ADP-2-2	6,133,525	ERA-1SM	6,943,629	LAVI-971VH	6,807,407	MBA-591	5,534,830
ADC-6-1R	6,133,525		6,133,525	ERA-21SM	6,943,629	LAVI-U182H	6,807,407	MBA-591L	5,534,830
	6,140,887	ADP-2-9	6,133,525	ERA-2SM	6,943,629	LAVI-U252VH	6,807,407	MBA-671	5,534,830
ADC-8-4-75	6,133,525		6,133,525	ERA-33SM	6,943,629	LEE-19	6,943,629	MCA-19FH	6,959,180
	6,140,887	ADPQ-2-250	6,133,525	ERA-3SM	6,943,629	LEE-29	6,943,629	MCA-19FLH	6,959,180
ADCH-80	6,133,525	ADQ-180	6,133,525	ERA-4SM	6,943,629	LEE-39	6,943,629	MCA-19FMH	6,959,180
ADCH-80A	6,133,525	ADQ-90	6,133,525	ERA-4SMM	6,943,629	LEE-49	6,943,629	MCA-272FH	6,959,180
ADE-1	6,133,525	ADT-1	6,133,525	ERA-5SM	6,943,629	LEE-59	6,943,629	MCA-30FH	6,959,180
ADE-10MH	6,133,525	ADT1-1WT	6,133,525	ERA-5SM	6,943,629	LFCN-1000	6,943,646	MCA-30FLH	6,959,180
ADE-11X	6,133,525	ADT1-6T	6,133,525	ERA-5SMM	6,943,629	LFCN-105	6,943,646	MCA-30FMH	6,959,180
ADE-11Y	6,133,525	ADT1.5-1	6,133,525	ERA-6SM	6,943,629	LFCN-120	6,943,646	MCA-35H	6,917,796
ADE-12	6,133,525	ADT1.5-17	6,133,525	ERA-6SM	6,943,629	LFCN-160	6,943,646	MCA-35LH	6,917,796
ADE-12MH	6,133,525	ADT1.5-2	6,133,525	ERA-8SM	6,943,629	LFCN-180	6,943,646	MCA-35MH	6,917,796
ADE-13	6,133,525	ADT1.5-122	6,133,525	Gali-1	6,943,629	LFCN-190	6,943,646	MCA-352	6,917,796
ADE-14	6,133,525	ADT16-1T	6,133,525	Gali-2	6,943,629	LFCN-1200	6,943,646	MCA-36FH	6,959,180
ADE-18W	6,133,525	ADT16-6	6,133,525	Gali-21	6,943,629	LFCN-1400	6,943,646	MCA-36FLH	6,959,180
ADE-1ASK	6,133,525	ADT16-6T	6,133,525	Gali-24	6,943,629	LFCN-1450	6,943,646	MCA-36FMH	6,959,180
ADE-1L	6,133,525	ADT2-1T	6,133,525	Gali-29	6,943,629	LFCN-1500	6,943,646	MCA-50H	6,917,796
ADE-1LH	6,133,525	ADT2-1T-1P	6,133,525	Gali-3	6,943,629	LFCN-1525	6,943,646	MCA-50LH	6,917,796
ADE-1MHW	6,133,525	ADT3-1T	6,133,525	Gali-33	6,943,629	LFCN-1575	6,943,646	MCA-50MH	6,917,796
ADE-1MHW	6,133,525	ADT3-6T	6,133,525	Gali-39	6,943,629	LFCN-1700	6,943,646	MCA-2751FH	6,959,180
ADE-2	6,133,525	ADT4-1T	6,133,525	Gali-4	6,943,629	LFCN-1800	6,943,646	MCA-3851FH	6,959,180
ADE-20	6,133,525	ADT4-1WT	6,133,525	Gali-49	6,943,629	LFCN-225	6,943,646	MCA1-113H	7,027,795
ADE-25MH	6,133,525	ADT4-5WT	6,133,525	Gali-4F	6,943,629	LFCN-2250	6,943,646	MCA1-12G	7,027,795
ADE-2ASK	6,133,525	ADT4-6T	6,133,525	Gali-5	6,943,629	LFCN-2500	6,943,646	MCA1-12GL	7,027,795
ADE-30	6,133,525	ADT4-6WT	6,133,525	Gali-51	6,943,629	LFCN-2600	6,943,646	MCA1-113H	7,027,795
ADE-30W	6,133,525	ADT8-1T	6,133,525	Gali-51F	6,943,629	LFCN-2750	6,943,646	MCA1-24	7,027,795
ADE-35	6,133,525	ADT9-1T	6,133,525	Gali-52	6,943,629	LFCN-2850	6,943,646	MCA1-24LH	7,027,795
ADE-35MH	6,133,525	ADTL-1	6,133,525	Gali-55	6,943,629	LFCN-3000	6,943,646	MCA1-24MH	7,027,795
ADE-3G	6,133,525	ADTL1-15-75	6,133,525	Gali-59	6,943,629	LFCN-320	6,943,646	MCA1-42	7,027,795
ADE-3GL	6,133,525	ADTL1-4-75	6,133,525	Gali-5F	6,943,629	LFCN-3400	6,943,646	MCA1-42LH	7,027,795
ADE-4	6,133,525	ADTL2-18	6,133,525	Gali-6	6,943,629	LFCN-3800	6,943,646	MCA1-42MH	7,027,795
ADE-42MH	6,133,525	ADTT1-1	6,133,525	Gali-6F	6,943,629	LFCN-400	6,943,646	MCA1-60	7,027,795
ADE-5	6,133,525	ADTT1-6	6,133,525	Gali-74	6,943,629	LFCN-4400	6,943,646	MCA1-60LH	7,027,795
ADE-6	6,133,525	ADTT1.5-1	6,133,525	Gali-84	6,943,629	LFCN-490	6,943,646	MCA1-60MH	7,027,795
ADE-901	6,133,525	ADTT3-2	6,133,525	GVA-81	6,943,629	LFCN-5000	6,943,646	MCA1-80H	7,027,795
ADE-R1	6,133,525	ADTT4-1	6,133,525	GVA-82	6,943,629	LFCN-530	6,943,646	MCA1-80LH	7,027,795
ADE-R11X	6,133,525								
ADE-R11XLH	6,133,525								

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuits' applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent	Mini-Circuits Model	U.S. Patent
MCA1-80MH	7,027,795	SCN-2 series	6,967,544	VLf-225	6,943,646	ZKL-1R5	6,943,629	ZX05-153	6,790,049
MCA1-85	7,027,795	SIM-14	7,027,795	VLf-2250	6,943,646	ZKL-2	6,943,629	ZX05-153LH	6,790,049
MCA1-85L	7,027,795	SIM-14H	7,027,795	VLf-2500	6,943,646	ZKL-2R5	6,943,629	ZX05-153MH	6,790,049
MERA-533	6,943,629	SIM-14LH	7,027,795	VLf-2600	6,943,646	ZKL-2R7	6,943,629	ZX05-762H	6,790,049
MERA-556	6,943,629	SIM-24MH	7,027,795	VLf-2750	6,943,646	ZOS-100	6,943,629	ZX05-C24	6,790,049
MERA-7433	6,943,629	SIM-43	7,027,795	VLf-2850	6,943,646	ZOS-1025	6,943,629	ZX05-C24LH	6,790,049
MERA-7456	6,943,629	SIM-43H	7,027,795	VLf-3000	6,943,646	ZOS-150	6,943,629	ZX05-C42MH	6,790,049
MSP2T-18XL	5,272,458	SIM-43LH	7,027,795	VLf-320	6,943,646	ZOS-200	6,943,629	ZX05-C42LH	6,790,049
	6,414,577	SIM-43MH	7,027,795	VLf-3400	6,943,646	ZOS-300	6,943,629	ZX05-C60	6,790,049
	6,650,210	SIM-63LH	7,027,795	VLf-3800	6,943,646	ZOS-400	6,943,629	ZX05-C60LH	6,790,049
	7,633,361	SIM-73L	7,027,795	VLf-400	6,943,646	ZOS-50	6,943,629	ZX05-U432H	6,790,049
	7,843,289	SIM-83	7,027,795	VLf-4400	6,943,646	ZOS-535	6,943,629	ZX05-U63	6,790,049
MSP2TA-18XL	5,272,458	SIM-83LH	7,027,795	VLf-490	6,943,646	ZOS-75	6,943,629	ZX05-U742MH	6,790,049
	6,414,577	SIM-153	7,027,795	VLf-5000	6,943,646	ZOS-765	6,943,629	ZX10-2-12	6,790,049
	6,650,210	SIM-153LH	7,027,795	VLf-530	6,943,646	ZPUL-21	6,943,629	ZX10-2-20	6,790,049
	7,633,361	SIM-153MH	7,027,795	VLf-5500	6,943,646	ZPUL-30P	6,943,629	ZX10-2-25	6,790,049
	7,843,289	SIM-722MH	7,027,795	VLf-575	6,943,646	ZX05-1	6,790,049	ZX10-2-71	6,790,049
MTS-18XL-B	5,272,458	SIM-762H	7,027,795	VLf-5850	6,943,646		6,133,525	ZX10-2-98	6,790,049
	6,414,577	SIM-792LH	7,027,795	VLf-6000	6,943,646	ZX05-10	6,790,049	ZX10Q-2 series	6,790,049
	6,650,210	SIM-752MH	7,027,795	VLf-630	6,943,646		6,133,525	ZX30-12-4	6,140,887
	7,633,361	SIM-852MH	7,027,795	VLf-6400	6,943,646		6,947,717		6,784,521
	7,843,289	SIM-U432H	7,027,795	VLf-6700	6,943,646	ZX05-10H	6,790,049		6,790,049
PMQPW-150	4,673,898	SIM-U63H	7,027,795	VLf-7200	6,943,646		6,133,525		6,790,049
POS-1400A	6,549,084	SIM-U712H	7,027,795	VLf-80	6,943,646		6,947,717		6,963,255
POS-2000A	6,549,084	SIM-U742MH	7,027,795	VLf-800	6,943,646	ZX05-10HW	6,790,049		6,790,049
POSA-960	6,549,084	TCBT-2R5G	7,012,486	VLf-95	6,943,646	ZX05-10L	6,790,049		6,963,255
QBA-07	5,534,830	TCBT-6G	7,012,486	VLfX-105	6,943,646		6,133,525		6,790,049
QBA-12	5,534,830	TCCH-80	7,012,485	VLfX-1050	6,943,646		6,947,717		6,963,255
QBA-12N	5,534,830	TCD-10-1W	6,140,887	VLfX-1100	6,943,646	ZX05-11X	6,790,049		6,790,049
QBA-20	5,534,830	TCD-10-1W-75	6,140,887	VLfX-1125	6,943,646		6,133,525		6,790,049
QBA-20W	5,534,830	TCD-13-4	6,140,887	VLfX-1300	6,943,646	ZX05-12MH	6,790,049		6,963,255
QBA-24	5,534,830	TCD-13-4-75	6,140,887	VLfX-1350	6,943,646		6,133,525		6,790,049
QBA-24W	5,534,830	TCD-18-4	6,140,887	VLfX-225	6,943,646	ZX05-14	6,790,049		6,963,255
QCC-20	7,030,713	TCD-18-4-75	6,140,887	VLfX-300	6,943,646		7,027,795		6,790,049
QCC-22	7,030,713	TCD-20-4	6,140,887	VLfX-400	6,943,646	ZX05-14H	6,790,049		6,963,255
RAM-1	6,943,629	TCD-9-1W	6,140,887	VLfX-450	6,943,646		7,027,795		6,790,049
RAM-2	6,943,629	TCD-9-1W-75	6,140,887	VLfX-470	6,943,646	ZX05-14LH	6,790,049		6,963,255
RAM-3	6,943,629	TIA-1000-1R8	5,101,171	VLfX-500	6,943,646		7,027,795		6,790,049
RAM-4	6,943,629		6,943,629	VLfX-540	6,943,646	ZX05-17H	6,790,049		6,963,255
RAM-7	6,943,629	TIA-1000-1R8-2	5,101,171	VLfX-650	6,943,646		6,133,525		6,790,049
ROS-1000V	6,424,241		6,943,629	VLfX-780	6,943,646	ZX05-1HW	6,790,049		6,963,255
ROS-1100V	6,424,241	TIA-1000-4	5,101,171	VLfX-80	6,943,646		6,133,525		6,790,049
ROS-1435PV	6,424,241	TIA-1000-4-2	5,101,171	VLfX-825	6,943,646	ZX05-1L	6,790,049		6,963,255
ROS-1500	6,549,084	UNCL-L1	6,943,629	VLfX-950	6,943,646		6,133,525		6,790,049
ROS-1605PV	6,549,084	UNCL-L1H	6,943,629	Z30-10-4-75	6,140,887	ZX05-1LHW	6,790,049		6,963,255
ROS-1720	6,549,084	UNCL-R1	6,943,629		6,784,521		6,133,525		6,790,049
ROS-1900	6,549,084	VACC-09	7,030,713	Z30-13-5-75	6,140,887	ZX05-1MHW	6,790,049		6,963,255
ROS-1900V	6,549,084	VACC-22	7,030,713		6,784,521		6,133,525		6,790,049
ROS-2000	6,549,084	VAM-3	6,943,629	Z30-16-5-75	6,140,887	ZX05-2	6,790,049		6,963,255
ROS-3000V	6,549,084	VAM-7	6,943,629		6,784,521		6,133,525		6,790,049
ROS-660PV	6,424,241	VBfZ-780	6,943,646	Z30-18-4-75	6,140,887	ZX05-20H	6,790,049		6,963,255
ROS-675PV	6,424,241	VBfZ-925	6,943,646		6,784,521		6,133,525		6,790,049
ROS-725PV	6,424,241	VBfZ-1065	6,943,646	ZADC-17-14HP	7,049,905	ZX05-25MH	6,790,049		6,140,887
ROS-740PV	6,424,241	VBfZ-1400	6,943,646		7,218,186		6,133,525		6,784,521
ROS-810LN	6,424,241	VBfZ-1690	6,943,646	ZFL-1000	6,943,629	ZX05-30W	6,790,049		6,790,049
SBA-2-14	5,534,830	VBfZ-2000	6,943,646	ZFL-1000H	6,943,629		6,133,525		6,790,049
SBA-2-18	5,534,830	VBfZ-2130	6,943,646	ZFL-1000LN	6,943,629	ZX05-42MH	6,790,049		6,140,887
SBA-2-20	5,534,830	VBfZ-2340	6,943,646	ZFL-2000	6,943,629		6,133,525		6,784,521
SBA-2-22	5,534,830	VBfZ-2575	6,943,646	ZFL-2500	6,943,629	ZX05-43	6,790,049		6,790,049
SBB-2-10	6,819,202	VBfZ-3590	6,943,646	ZFL-500	6,943,629		7,027,795		6,140,887
SBB-2-13	6,819,202	VBfZ-4000	6,943,646	ZFL-500LN	6,943,629	ZX05-43H	6,790,049		6,784,521
SBB-2-18	6,819,202	VBfZ-5500	6,943,646	ZFL-750	6,943,629		7,027,795		6,790,049
SBB-2-21W	6,819,202	VBfZ-6260	6,943,646	ZHL-20W-13	7,348,854	ZX05-43LH	6,790,049		6,790,049
SBB-2-23	6,819,202	VLf-1000	6,943,646	ZHL-50W-52	7,348,854		7,027,795		6,140,887
SBD-4-25	6,819,202	VLf-105	6,943,646	ZHL-100W-GAN	7,348,854	ZX05-43MH	6,790,049		6,784,521
SBTC-2-10	6,963,255	VLf-120	6,943,646	ZHL-100W-52	7,348,854		7,027,795		6,790,049
SBTC-2-10-5075	6,963,255	VLf-1200	6,943,646	ZHL-1000-3W	6,943,629	ZX05-5	6,790,049		6,790,049
SBTC-2-10-75	6,963,255	VLf-1400	6,943,646	ZHL-1000VH2	6,943,629		6,133,525		6,140,887
SBTC-2-10-7550	6,963,255	VLf-1450	6,943,646	ZHL-2500VH	6,943,629	ZX05-63LH	6,790,049		6,784,521
SBTC-2-15-75	6,963,255	VLf-1500	6,943,646	ZHL-3010	6,943,629		7,027,795		6,790,049
SBTC-2-20	6,963,255	VLf-1525	6,943,646	ZHL-6A	6,943,629	ZX05-73L	6,790,049		6,790,049
SBTC-2-25	6,963,255	VLf-1575	6,943,646	ZJL-3G	6,943,629		7,027,795		6,790,049
SBTCJ-1W	6,806,790	VLf-160	6,943,646	ZJL-4G	6,943,629	ZX05-83	6,790,049		6,790,049
SCA-3-11	6,965,280	VLf-1700	6,943,646	ZJL-4HG	6,943,629		7,027,795		6,790,049
SCA-4-10	Patent Pending	VLf-180	6,943,646	ZJL-5G	6,943,629	ZX05-83LH	6,790,049		6,790,049
SCA-4-10-75	Patent Pending	VLf-1800	6,943,646	ZJL-6G	6,943,629		7,027,795		6,790,049
SCA-4-15-75	Patent Pending	VLf-190	6,943,646	ZJL-7G	6,943,629				



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