

Application Notes

The following listings are provided to help you find the appropriate coils and filters that compliment certain IC's. Additional listings are developed over time so if you do not find matching devices to IC's you are using, please contact your nearest

TOKO sales office. Some of the devices listed in this section are not listed on proceeding pages as "Standard Parts", but are available through your local TOKO sales representative or an authorized TOKO distributor.

Motorola Consumer IC's

Component Type	TOKO Type	TOKO Part Number	Notes
MC1330A Low Level Video Detector			
L1	MC120	E526HNSA-100059	0.41 μ H
MC1350 Monolithic IF Amplifier			
L1	MC120	E526HNSA-100059	0.41 μ H
T1	10K	WKEACA-60337DX	
T1	10K	WKEC-60338ADB	
MC1374 TV Modulator Circuit			
L1	MC120	E526HNA-100297	
L2	10K	BTKANS-9439HM	
L3, L4	MC122	E528DNAS-100082	
MC1377 Color TV RGB to PAL/NTSC Encoder and MC13077 Advanced PAL/NTSC Encoder			
Y-Delay Line	5VFNF	H321LNP-1436PBAB	400 ns delay line
Chroma Bandpass	10NSF	166NNF-10264AG	10mm transformer
NTSC BPF	5VUS	H286BAIS-6276DAD	3.58 MHz BPF
PAL BPF	5VUS	H286BAIS-4963DAD	4.43 MHz BPF
MC1378 Color TV Composite Video Overlay Synchronizer			
Y-Delay Line	5VFNF	H321LNP-1436PBAB	400 ns delay line
Chroma Bandpass	10NSF	166NNF-10264AG	10mm transformer
NTSC BPF	5VUS	H286BAIS-6276DAD	3.58 MHz BPF
PAL BPF	5VUS	H286BAIS-4963DAD	4.43 MHz BPF
300 nH Choke	7KL	291CC-T1166AVF	14.3 MHz (7mm)
300 nH Choke	10K	TKXC-T1262AVF	14.3 MHz (10mm)
300 nH Choke	7KL	291CCS-T1185AVF	17.78 MHz (7mm)
300 nH Choke	10K	BTKXCS-T1278AVF	17.78 MHz (10mm)
300 nH Choke	7KL	291CCS-T1186AVF	28.86 MHz (7mm)
300 nH Choke	10K	BTKXCS-T1279AVF	28.86 MHz (10mm)
Resonator (NTSC)	CRHF	DCRHF4.03	4.03 MHz Ceramic Resonator
Quad Detector	7KM	MF292CNS-T1082Z	In place of ceramic
MC13077 Advanced PAL/NTSC Encoder			
Y-Delay Line	5VFNF	H321LNP-1436PBAB	400 ns delay line
Y-Delay Line	5VFNT	H319LNM-3828TDD	400 ns delay line, low cost
Y-Delay Line	4FT	H356LNM-7254	400 ns delay line, SMD
NTSC BPF	5VUS	H286BAIS-6276DAD	3.58 MHz BPF
PAL BPF	5VUS	H286BAIS-4963DAD	4.43 MHz BPF
NTSC BPF	4FUS	H354BAI-1425DAD	3.58 MHz BPF, SMD
PAL BPF	4FUS	H354BAI-1748DAD	4.43 MHz BPF, SMD
MC44301 High Performance Color TV IF and MC44302 Advanced Multistandard TV Video/Sound IF			
L2	10K	TKANS-T1390ADP	
MC34010P, MC34011P Electronic Telephone Dialer			
500 KHz Resonator	CRK	CRK500	
MC13020 C-Quam AM Stereo Decoder			
Ceramic VCO	CRHF	B1CRHF3.60	
L-C VCO	7KMM	MF292BC-1349Z	In place of ceramic
T	10K	BMTKACS-34549XX	
MC13022 Advanced Medium Voltage AM Stereo Decoder			
	7P	A7NRES-T1370Y	450 KHz IF
Ceramic VCO	CRHF	B1CRHF3.60	
L-C VCO	7KMM	MF292BC-1349Z	In place of ceramic

Motorola Consumer IC's (continued)

Component Type	TOKO Type	TOKO Part Number	Notes
MC13024 Low Voltage AM Stereo Receiver			
T1	7P	A7BRS-10592X	Input Transformer
T2	7P	A7BRS-T1342AIX	Local Oscillator
T3	7P	7MCS-T1464X	Mixer Output
T5	7P	7MCS-T1463BS	IF Output
T6	7KL	MF291ACS-3688VL	Reference Oscillator
MC13025 Electronic Tuned Radio Front End			
L1	7PA	126ANS-7594HM	Antenna
T1,T2	7P	A7BRS-11081RS	RF Input
T3	7PH	A119ANS-19035RS	VCO
T4	7P	A7NRES-11148N or	450 KHz IF, Standard
T4	7P	A7NRES-T1532N	450 KHz IF, High Gain

Motorola Communication IC's

Component Type	TOKO Type	TOKO Part Number	Notes
MC2831A Low Power FM Transmitter System			
OCS Coil	7PA	126ANS-T1072Z	20 mH
MC2833 Low Power FM Transmitter System			
	7KMM	292SNS-T1368Z	0.22 μ H
	7KMM	292KNS-T1375Z	3.3 μ H
MC3335 Low Power Dual Conversion FM Receiver			
Quad Coil ¹	7P	7MCS-8128Z	7mm
	5CCD	614AG-0145GW	SMD
CF	CFSK	SK107M1-AO-10	10.7 MHz, 280 KHz B.W.
MC3356 Wide Band FSK Receiver			
L1	MC120	E526HNSA-100059	0.41 μ H
CF	CFSK	SK107M1-AO-10	10.7 MHz, 280 KHz B.W.
MC3357 Low Power FM IF			
Quad Coil	7P	A7BRCS-T1117Z	
MC3359 High Gain Low Power FM IF and MC3361B Low Power FM IF			
Quad Coil ¹	7P	7MCS-8128Z	7mm
	5CCD	614AG-0145GW	SMD
MC3362/MC3363 Low Power Dual Conversion FM Receivers			
Quad Coil (LC1) ¹	7P	7MCS-8128Z or	7mm
	5P	5PLC-2630BGT	5mm
	5CCD	614AG-0145GW	SMD
FL2	CFSK	SK107M1-AO-10	10.7 MHz
1ST LO	MC-120	E526HNSA-100059	0.41 μ H
Osc Coil	7KMM	292SNS-T1371Z	0.68 μ H
Mixer Input	7KMM	292SNS-T1370Z	0.47 μ H
T1 (fig 11)	7KMM	292ZCS-T1457N	
T2 (fig 12)	7KMM	292ZCS-T1458Z	
MC3367 Low Voltage Single Conversion FM Receiver			
Quad Coil (LC1) ¹	7P	7MCS-8128Z or	7mm
	5CCD	614 AG-0145GW	SMD
L1, 10.7 MHz	7KMM	292KNS-T1377Z	6.8 μ H
L1, 45 MHz	7KMM	292SNS-T1371Z	0.68 μ H
L1, 72 MHz	7KMM	292SNS-T1368Z	0.22 μ H

Motorola Communication IC's (continued)

Component Type	TOKO Type	TOKO Part Number	Notes
MC3371/MC3372 Low Power FM IF			
Quad Coil ¹	7P	7MCS-8128Z or	7mm
	5CCD	614AG-0145GW	SMD
L1	10K	BTKANS-9441HM or	6.8 μ H, 10mm
	7KMM	292CNS-T1050Z	6.8 μ H, 7mm
49.7 MHz Application			
L1	MC-138	E544EN-100026	0.2 μ H
L2	MC-130	E536HN-60060	0.62 μ H
MC3373 Remote Control Amp/Detector			
40 KHz Tank	10PA	CANS-4612Z or	5.0 mH, 10mm
	7PA	126LNS-6285Z	5.0 mH, 7mm
MC13055 Wideband FSK Receiver			
L1	MC120	E526HNA-100301	280 nH
L2	MC120	E526HNA-100079	380 nH
MC13135, MC13136 FM Communication Receiver			
Quad Coil ¹	7P	7MCS-8128Z or	7mm
	5CCD	614AG-0145GW	SMD
	7KMM	292SNS-1371Z	0.68 μ H
	MC138	E544EN-100026	0.20 μ H
MC13155 Wideband IF System			
For Quad Circuit	MC122	E528DNAS-100083	0.260 μ H
For Quad Circuit	MC122	E528DNAS-100082	0.220 μ H
	7KMM	292SNS-T1365Z	0.080 μ H
MC13156 Wideband IF Systems			
Quad Coil ¹	7P	7MCS-8128Z	455KHz, 7mm
	5CCD	614AG-0145GW	455KHz, SMD
Quad Circuit	7KMM	292KNS-T1373Z	10.7 MHz, 1.5 μ H
Quad Coil	7KM	292BCS-3501Z	10.7 MHz
CF	CFSK	SK107M5-AO-10X	10.7 MHz, 110 KHz, B.W.
MC13158 Wideband IF System			
Quad Circuit	7KMM	292KNS-T1373Z	10.7 MHz, 1.5 μ H
Quad Coil	7KM	292BCS-3501Z	10.7 MHz
CF	CFSK	SK107M1-AO-10	10.7 MHz, 280 KHz, B.W.
MC13173 Infrared Integrated Transceiver System			
Quad Circuit	7KMM	292KNS-T1372Z	10.7 MHz, 1.0 μ H
L1	7P	A7BRS-T1040Z	100 μ H
L2	7PH	A119ANS-T1042Z	58 μ H
CF	CFSK	SK107MA-AO-10	10.7 MHz, 360 KHz, B.W.
MC13175, MC13176 UHF FM/AM Transmitter			
For Xtal	7KMM	292KNS-T1017Z	0.82 μ H, (fig. 1,2,21)
Ocs Tank	MC-138	E544EN-100025	0.165 μ H, (fig. 1,21)
Ocs Tank	MC-138	E544EN-100023	0.098 μ H, (fig. 2)
For Xtal	7KMM	292KNS-T1377Z	6.8 μ H, (fig. 17A)
Ocs Tank	MC-122	E528SN-100062	0.146 μ H, (fig. 17A, 17B)
RFC1	MC-122	E528SN-100063	0.190 μ H (fig. 17A)
Balun	B5FL	617DB-1006 or	
	B4F	616BD-1006	

Footnotes: 1 Toko Type 10EZ, Quadrature Coil is no longer recommended, please replace with Toko 7P, 7mm type or Toko 5CCD surface mount type.

National Semiconductor IC's

Component Type	TOKO Type	TOKO Part Number	Comments
LM1863 AM Radio System for ETR			
T1	5P	332FC-T1035YRT	
T2, T3	7P	7RTS-T1295CI	
T4	7P	7NRES-T1266EK	
T5	7P	7NRES-T1099AAG	
T6	7P	7TRS-T1098AO	
Resonator	CRK	CRK450	
Varactor	VCD	KV1235Z	
LM1865/LM1965/LM2065 Advanced FM IF Systems			
T1	10K	BKAC-K2318HM	
CF1, CF2	CFSK	SK107M1-AE-10	
LM1866 Low Voltage AM/FM Receiver			
T1	10K	BKAC-K2318HM	
T2	7PU	159GC-A3785HM	
T4, T5	10EZ	RWO-6A5105BM	
CF1	CFMA	CFMA-003	
Polyvaricon	PVC	QT-22124	
LM1868 AM/FM Radio System			
C1	PVC	FL22124	
T1	10K	BKAC-K2318HM	
T2	7PU	159GC-A3785HM	
L2	10EZ	RWO-6A5105BM	
CF1	CFMA	CFMA-003	
LM1871 RC Encoder/Transmitter			
	MC117	E523LN-7210019	
T1	10EZ	RMC-202313NO	
T1	7P	7MC-202313NO (7 mm)	
T2	10EZ	RMC-402503NO	
T2	7P	7MC-402503NO (7 mm)	
	10K	BKXN-K4636BJF	
	10K	BKEN-K4028DZ	
	10K	KEN-K4635BJE	
	10EZ	RAN-10A6729EK	
LM1872 Radio Control Receiver/Decoder			
L1	10K	BKEN-K4028DZ	
T1	10EZ	RMC-202313NO	
T1	7P	7MC-202313NO (7 mm)	
T2	10EZ	RMC-402503NO	
T2	7P	7MC-402503NO (7 mm)	
L1	10K	KXNA-K4434DZ	
T1	10EZ	RMC-502182NO	
T1	7P	7MC-502182NO (7 mm)	
T2	7P	7MC-502182NO (7 mm)	
L1	7P	7MC-202353NO (7 mm)	
T2	7P	7MC-402503NO (7 mm)	
L1	10K	BKEN-K4857DZ	
LM3089 FM Receiver IF System			
	10K	BKAC-K2318HM	
LM3189 FM IF System			
	10K	BKACS-K586HM	
LM3361 Low Voltage/Power Narrow Band FM IF System			
	10EZ	RMC-2A6597HM	
LM3820 AM Radio System			
L0, L2	10EZ	RWO-6A6255N	
T1	10EZ	RRR-3A6426N	
T2	10EZ	RRR-3A6427A	
T3	10EZ	RZC-1A6425A	

National Semiconductor IC's (cont.)

Component Type	TOKO Type	TOKO Part Number	Comments
LM1880 No Holds Vertical/Horizontal			
	CRK	CRK503	
LM2889 TV Video Modulator			
	10K	KAC-K5674HM	
LM1812 Ultrasonic Transceiver			
L6	12VXA	719VXA-A018YSU	
L1	10PA	CAN-1A901HM	
L6	12VXA	719VXA-A017A0	
L1	10PA	CLN-2A900HM	
LM1893/LM2893 Carrier Current Transceivers			
T1	12VXA	719VXA-T1060YUK	125kHz
T2	12VXA	719VXA-T1061YUK	50kHz
T3	10EZ	RZNS-T1147YUK	300kHz
LM1894 Dynamic Noise Reduction System			
L8	10PA	CAN-1A185HM	
LMX2240 IF Receiver for DECT			
Tank Circuit	5CCE	A638AH-0294	
1MHz LPF	4FUS	H354LA1-2484DDD	

Philips/Signetics RF Communication ICs

Component Type	TOKO Type	TOKO Part Number	Comments
NE/SA604A and NE/SA614A Low Power FM IF System			
F2	7P	7MCS-8128Z or	455 KHz Quad Coil
	5CCD	614AG-0145GW	455 KHz Quad Coil
NE/SA605 and NE/SA615 High Performance Low Power Mixer FM IF System			
45 MHz Application 1			
IFT1	5CCD	614AN-9271Z	270 μ H (replaces 5CD)
L1			300 nH (replaces 5CB)
L2	7KMM	292CNS-T1038Z	0.80 μ H
45 MHz Application 2			
IFT1	7P	7MCS-8128Z	455 KHz Quad Coil (replaces 10EZ)
L1	MC120	E526HNA-100297	140 nH (replaces Coilcraft)
L2	7KMM	292CNS-T1046Z	3.3 μ H
10.7 MHz Application, AN1996			
FLT1	CFSK	SK107M1-AO-10	10.7 MHz, 280 KHz BW (replaces Murata)
FLT2	CFSK	SK107M1-AO-10	10.7 MHz, 280 KHz BW (replaces Murata)
NE/SA606 and NE616 Low Voltage High Performance Mixer IF System			
45 MHz Application 1, leaded			
IFT1	7P	7MCS-8128Z	455 KHz tank (replaces 10EZ)
L1	MC120	E526HNA-100297	140 nH (replaces Coilcraft)
L2	7KMM	292CNS-T1046Z	3.3 μ H
45 MHz Application 2, surface mount			
IFT1	5CCD	614AN-9331Z	330 μ H (replaces 5CD)
L1	5CCE	A638AN-0158Z	330 nH (replaces 5CB)
L2	5CCE	A638AN-0165Z	1.2 μ H
SA607 and SA617 Low Voltage High Performance Mixer FM IF System			
45 MHz Application 1, leaded			
IFT1	7P	7MCS-8128Z	455 KHz tank (replaces 10EZ)
L1	MC120	E526HNA-100297	140 nH (replaces Coilcraft)
L2	7KMM	292CNS-T1046Z	3.3 μ H
45 MHz Application 2, surface mount			
IFT1	5CCD	614AN-9331Z	330 μ H (replaces 5CD)
L1	5CCE	A638AN-0158Z	330 nH (replaces 5CB)
L2	32CS	380LB-1R2K	1.2 μ H (replaces Coilcraft)

Philips/Signetics RF Communication ICs (continued)

Component Type	TOKO Type	TOKO Part Number	Comments
SA608 Low Voltage High Performance Mixer FM IF System			
45 MHz Application 1, leaded			
IFT1	7P	7MCS-8128Z	455 KHz tank (replaces 10EZ)
L1	MC120	E526HNA-100297	140 nH (replaces Coilcraft)
L2	7KMM	292CNS-T1038Z	0.8 μ H
45 MHz Application 2, surface mount			
IFT1	5CCD	614AN-9331Z	330 μ H (replaces 5CD)
L1	5CCE	A638AN-0158Z	330 nH (replaces 5CB)
L2	32CS	380LB-1R2K	1.2 μ H (replaces Coilcraft)
NE/SA624 High Performance Low Power FM IF System with High Speed RSSI			
IFT1	7P	7MCS-8128Z	455KHz tank (replaces 10EZ)
NE/SA625 and NE/SA6276 High Performance Low Power FM IF System with High Speed RSSI			
45 MHz Application			
IFT1	7P	7MCS-8128Z	455 KHz tank (replaces 10EZ)
L1	MC120	E526HNA-100297	140 nH (replaces Coilcraft)
L2	7KMM	292CNS-T1038Z	0.8 μ H
TDA5051 Home Automation Modem			
Power Line Isolation Transformer	12VX	707VX-T1002N	

Philips/Signetics Video ICs

Component Type	TOKO Type	TOKO Part Number	Comments
SAA7188 Digital Video Encoder			
Post D/A LPF	5VST	H288LSLS-14653	Lower grad
Post D/A LPF	5FVP	TH317LTOS-2919PGAF	Mid-grade
Post D/A LPF	5VZS	603F-1011	High grade
SAA7199B Digital Video Encoder			
6 MHz LPF	5VUS	H286LAIS-14709	For PC application
4.2 MHz LPF	5VST	H288 LSLS-14653 and A287ENKS-14654	For Digital CATV application Sin x/x function with LPF
TDA8501 PAL/NTSC Encoder			
NTSC y-delay line	5VFNQ	TH321LNP-3830	
PAL y-delay line	5VFNQ	TH320LNO-3829	
TDA8708 and Video Analog Input Interface			
5MHz LPF	5VFT	H315LNLS-2722TBD	

Plessey IC's

Component Type	TOKO Type	TOKO Part Number	Comments
SL6639 FSK Direct Conversion Receiver			
1:1 Transformer	5CCE	A638AN-0234	0.11 μ H nominal (Replaces 5CE)