SAW DEVICE SELECTION TABLE

for

Multimedia applications

(TV, CATV, VCR, DVD-R, DVB, DAB, SAT)

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TV IF filters for intercarrier applications

Picture Carrier MHz	Type		PC - SC Distance MHz	Sound Carrier dB	Color Carrier dB	Group Delay sag ns	Group Delay CC ns	Standard	Available Packages SIP5K	SIP5D	DIP10K	SMD	Features
38.00	K2959M	i	5.5...6.5	17, 19	1.0	ripple=30	ripple=30	D/K, B/G	+				flat GD,
	K2965M	i	5.5...6.5	19, 20	2.9	-50	50	D/K, B/G	+				GD predistortion
	K2983M	s, i	5.5...6.5	15, 15	2.5	-60	-120	D/K, B/G	+				GD predistortion, economic
	M1973D	i	4.5	20	1.1	0	40	M/N		+			PAL M/N
38.90	G1865M	i	5.5	20	2.7	-50	70	B/G	+				economic
	G1975M	*,i	5.5	20	2.8	-90	100	B/G	+	O			high performance
	G1985M	*, i	5.5...5.85	14, 14	0.2	-90	70	B/G NICAM	+	O			high performance & high SC
	J1956M	*,i	6.0	20	2.5	ripple=40	ripple=40	I	+	O			
	K2962M	i	5.5...6.0	15, 15	1.0	ripple=40		B/G, I, L/L'	+				flat GD
	K2966M	i	5.5...6.5	19, 20	3.1	-55	45	B/G, D/K	+	O			GD predistotion
	K2982M	i	5.5...6.5	20, 20	2.5	-55	45	B/G, D/K	+				GD predistortion, economic
39.50	J1951M	*, i	6.0	22	3.8	ripple=40	ripple=40	I	+				
45.75	M1867D	i	4.5	14	1.0	ripple=40	ripple=40	M/N	+	O		O	high performance & high SC
	M1871M	i	4.5	17	4.3	ripple=50	ripple=50	M/N	+	O		O	economic
	M1971M	i	4.5	17	2.0	ripple=40	ripple=40	M/N	+	O		O	high performance
58.75	N1952D	i	4.5	19	2.0	ripple=50	ripple=50	M	+	O			
various		c, i						various	O	O		O	

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o: obsolete (not for new designs)
s: Sample available (not yet in production)
c: more filter types are available for the different standards and packages;
    please contact your SAW filter counterpart (Sales / Marketing) for details
p: pin configuration different from standard package
h: high temperature stability

* : suitable for CENELEC EN 55020

+: Same key electrical performance type available in this package
O: Same functional type available in this package;
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IF filters for video applications

Picture Carrier MHz	Type		PC - SC Distance MHz	Sound Carrier dB	Color Carrier dB	Group Delay sag ns	Group Delay CC ns	Standard	Available Packages				Features
									SIP5K	SIP5D	DIP10K	SMD	
33.90	K3953M	*, i	-6.5	53	-	ripple=50	ripple=50	L	+	+		+	high performance
	K3958M	*, i	-6.5	58	-	ripple=40	ripple=40	L	+	O		O	economic
	K3974D	*,s, i	-6.5	50	-	-65	0	L		+			high performance, GD predistortion
38.00	K3964M	*, i	5.5...6.5	49, 59	3.5	ripple=50	ripple=50	B/G, D/K	+				economic
	K3966D	*, i	5.5...6.5	54, 61	0.9	-80	-40	B/G, D/K	O	+			high performance, GD predistortion
38.90	G3956M	*, i	5.5	39	1.0	-85	70	B/G	+	+			GD predistortion
	K3953M	*, i	5.5...6.5	24, 52	1.3	ripple=50	ripple=50	B/G, D/K, L,I	+	+		+	high performance
	K3958M	*, i	5.5...6.5	18, 57	0.6	ripple=40	ripple=40	B/G, D/K, L,I	+	O		O	economic
	K3974D	*,s, i	5.5...6.5	22, 60	0.3	-65	0	B/G, D/K, L,I		+			high performance, GD predistortion
	M3960M	i	4.5	45	3.3	ripple=35	ripple=35	M/N	+				
39.50	J3961D	*, i	6.0	48	0.8	-10	-95	I	O	+			
45.75	M3953M	i	4.5	37	0.2	ripple=40	ripple=40	M/N	+	+		O	flat GD
	M3954D	i	4.5	37	1.3	-90	20	M/N	+	+			GD predistortion
58.75	N3954D	i	4.5	30	0.1	ripple=60	ripple=60	M	O	+			
various		c, i						various	O	O		O	

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IF filters for audio applications

Picture carrier MHz	Sound Carrier MHz	Type		PC - SC Distance MHz	Picture Carrier dB	Standard	Available Package				Features
							SIP5K	SIP5D	DIP10K	SMD	
33.90	40.40	L9353M	i	-6.5	-55	L	+				
38.00	31.50-32.50	K9351M	i	5.5...6.5	-48	B/G, D/K, I	+	+			
	31.50-32.50	K9355D	i	5.5...6.5	-54	B/G, D/K, I		+			31.0MHz suppressed
	31.50-32.50	K9358M	i	5.5...6.5	-48	B/G, D/K, I	+	+			economic
	31.50-33.50	K9352M	i	4.5...6.5	-52	B/G, D/K, I, M/N	+	+		+	
38.90	32.40-33.40	K9356M	i	5.5...6.5	-47	B/G, D/K, I, L	+	O			
	32.40-33.40	K9363D	i	5.5...6.5	-61	B/G, D/K, I, L		+			economic
	32.40-34.40	K9362M	i	4.5...6.5	-61	B/G, D/K, I, M/N	+		O		
	32.90	K9353M	i	6.0...6.55	-57	I NICAM	+				
	33.40	G9353M	i	5.5...5.85	-55	B/G NICAM	+	+			
39.50	33.50	J9361D	i	6.0...6.55	-57	I NICAM					
45.75	41.25	M9370M	i	4.5	-60	M/N	+	+			
58.75	54.25	N9350D	i	4.5	-47	M		+			
various			c, i			various	O	O		O	

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IF filters with switching function between two channels

Type		Channel 1 Fc MHz	Type	Standard	Channel 2 Fc MHz	Type	Standard	SIP5K	SIP5D	DIP10K	SMD	Features
L9653M	i	33.9	AU	L'	38.9	AU	L	+				
K9656M	i	33.9	AU	L' NICAM	38.9	AU	B/G, D/K, I, L	+	+		+	
X7253D	i	36.0	BP	7.7MHz DVB-T	36.0	BP	6.8MHz DVB-T		+			
X7257M	s, i	36.125	BP	8.0MHz	36.125	BP	6.0MHz	+				For Micronas VCT 49xyl IC
X7251D	i	36.17	BP	8.0MHz DVB-T	36.17	BP	7.0MHz DVB-T		+		O	
K7253M	i	38.0	IC	B/G, D/K, I	38.0	IC	M/N	+	O	O		
K7254M	i	38.0	VI	B/G, D/K, I	38.0	IC	M/N	+	O	O		
K7262D	i	38.0	VI	B/G, D/K, I	38.0	VI	M/N	O	+	O		
K9655D	i	38.0	AU	B/G, D/K, I	38.0	AU	M/N		+			
K7252M	i	38.9	IC	B/G, D/K, I	38.9	IC	M/N	+		O		
K7268D	i	38.9	VI	B/G, D/K, I, L	38.9	IC	M/N		+	O		
K7257M	i	38.9	VI	B/G, D/K, I, L	38.9	VI	M/N	+	+	O		
K9663D	i	38.9	AU	D/K, L, I NICAM	38.9	AU	B/G		+			
K9653D	i	38.9	AU	B/G, D/K, I	38.9	AU	M/N	O	+			
X9650M	i	44.0	BP	1.8MHz DVB-C	44.0	BP	1.2MHz DVB-C	+			O	US cable, out of band
X7256D	i	57.0	BP	6.0MHz ISDB-T	57.0	BP	4.1MHz ISDB-T	+			O	13 segments
	c, i			various			various	O	O	O	O	

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IC: Intercarrier channel, Fc=picture carrier frequency
VI: Video channel, Fc=picture carrier frequency
AU: Audio channel, Fc=picture carrier frequency
BP: Bandpass channel, Fc=center frequency

+: Same key electrical performance type available in this package
O: Same functional type available in this package;
   please contact your SAW filter counterpart (Sales / Marketing)

IF filters for quasi/split sound applications

Picture Carrier MHz	Type		PC - SC Distance MHz	Sound Carrier dB	Color Carrier dB	Group Delay sag ns	Group Delay CC ns	Standard	Available Packages				Features
									SIP5K	SIP5D	DIP10K	SMD	
38.00	K3352K	i	5.5...6.5	54, 52	2.8	30	-22	B/G, D/K	O	O	+		
38.90	G3361K	*, i	5.5...5.85	46, 30	1.8	-95	-80	B/G NICAM			+		
	J3353K	*, i	6.0...6.55	52, 56	-0.1	0	-50	I NICAM	O		+		
	K3565M	p, i	5.5...6.5	51, 39	1.5	-60	40	B/G, D/K	+	O	O		
39.50	J3356K	*, i	6.0...6.55	55, 51	0.3	ripple=30	ripple=30	I NICAM			+		
45.75	M3565M	p, i	4.5	32	0.2	ripple=60	ripple=60	M/N	+	+	O		
58.75	N3564D	p, i	4.5	40	0.0	0	80	M	O	+	O		
various		c, i						various	O	O	O	O	

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Bandpass IF filters for TV applications

Center Frequency MHz	Type		Bandwidth 3dB MHz	Standard	Available Packages				Features
					SIP5K	SIP5D	DIP10K	SMD	
23.40	X6756M	i	2.3	DVB-C (Europe)	+	O			Cable, out of band
35.825	X6753M	i	7.5	Analog Multistandard	+	O			for Micronas IC DRX3960
36.00	X6857D	i	8.1	DVB-C, DVB-T (Europe)	O	+		O	
	X6867D	i	8.1	DVB-C, DVB-T (Europe)		+			economic
36.125	X6865D	i	6.0	DVB-C (Europe)		+			EuroDOCSIS
	X6872D	i	6.9	DVB-T (Europe)		+		O	
	X6966M	i	8.0	DVB-C, DVB-T (Europe)	+	+		O	EuroDOCSIS, high performance
	X6885D	s	8.0	DVB-C, DVB-T (Europe)		+			EuroDOCSIS, economic
43.75	X6864D	i	6.2	DVB-C (US)		+			OpenCable DOCSIS
	X6964M	i	6.0	DVB-C (US)	+	+		O	OpenCable DOCSIS
44.00	X6893D	i	6.2	DVB-C (US)	+	+			OpenCable DOCSIS
	X6855D	i	8.0	DVB-C (Europe)	+	+			
	X6959D	i	1.7	DVB-C (Europe)	+	+			Cable, out of band
	X6965M	i	6.0	DVB-C (US)	+	+		O	OpenCable
	X6875D	i	6.0	DVB-C (US)	O	+			OpenCable, economic
	X6941D	h, i	5.6	ATSC (US)	O	+		O	high performance
	X6764D	i	5.5	ATSC (US)		+			economic
	X7550D	s, i	5.7	ATSC (US)		+			low insertion attenuation
	X6892D	i	5.6	ATSC (US)		+			optimized for cascade
57.00	X6933D	h, i	5.8	ISDB-T 13-segment (Japan)		+		O	high performance
	X6940D	h, i	5.4	ISDB-T 13-segment (Japan)		+		O	high performance, optimized for single use
	X6989D	i	6.0	ISDB-T 13-segment (Japan)		+		O	optimized for cascade
various		c, i	various	various	O	O		O	

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Vestigial sideband filters

Center Frequency MHz	Type		Vestigial Sideband MHz	Bandwidth 3dB MHz	Sound Carrier	Standard	Available Packages				Features
							SIP5K	SIP5D	DIP10K	SMD	
38.90	G4963D	i	0.75	7.0	yes	B/G	O	+			
	K4960D	i	0.75	8.0	yes	D/K		+			
45.75	M4952M	i	0.75	6.0	yes	M/N	+				

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Bandpass filters for digital audio applications

Center Frequency MHz	Type		Bandwidth 3dB MHz	Standard	Available Packages				Features
					SIP5K	SIP5D	DIP10K	SMD	
30.72	X7001L	h, i	1.5	DAB				X	
38.912	X6922D	h, i	1.5	DAB	X	X		X	
72.54	B1708	h, i	4.3	Sirius satellite radio				X	QCC12C
76.50	B1707	h, i	4.7	Sirius satellite radio				X	QCC12C
	B1710	h, i	14.6	Sirius satellite radio				X	QCC12C
80.46	B1709	h, i	4.6	Sirius satellite radio				X	QCC12C
115.18	B1717	h,s, i	14.0	XM Radio				X	QCC12C
259.86	B1706	h, i	14.9	XM Radio				X	QCC12C
919.55	B4030	h, i	1.5	DAB				X	QCC8B
1472	B1608	h, i	40	DAB, WorldSpace				X	QCC8B, single ended or balanced operation at 50 Ohm
various		c, i	various	various				O	

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RF bandpass filters

Center Frequency MHz	Type		Usable Passband MHz	Package	Features
1216	B1618	i	8	QCC8D	For double conversion applications, bal. 200 Ohm to bal. 200 Ohm. Low loss
1220	B1605	i	28	QCC8D	For double conversion applications, bal. 200 Ohm to bal. 200 Ohm. Low loss
	B1603	i	8	QCC8B	For double conversion applications, bal. 200 Ohm to bal. 200 Ohm. Low loss
	B1614	i	8	QCC8D	For double conversion applications, bal. 100 Ohm to bal. 100 Ohm. Low loss
974.00	B1615				
1178.12	B1617				
1210.00	LP85A				
1280.18	B1616				
1382.24	B1620	s	40	QCC8D	For channel stacking applications, bal. 150 Ohm to bal. 150 Ohm. Low loss
1420.00	B1623				
1680.00	B1622				
1688.42	LP39A				
1790.48	LP41A				
2040.00	B1621				
various		c, i			

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EPCOS

Electronic Parts and Components

Bandstop filters

Notch Frequency MHz	Type		Passband MHz	Maximum Insertion Attenuation dB	Package	Features
815 - 825	LP12A	s, i	470 - 770	2.2	QCS5C	Frontend filter for ISDB-T 1-segment, 2.0 x 1.4 x 0.54 mm³
820 - 830	LP66A	s, i	470 - 770	1.8	QCS5C	Frontend filter for ISDB-T 1-segment, 2.0 x 1.4 x 0.54 mm³
830 - 840	LN31B	s, i	470 - 770	2.0	QCS5C	Frontend filter for ISDB-T 1-segment, 2.0 x 1.4 x 0.54 mm³
830 - 840	LP62A	s, i	470 - 770	1.1	QCS5I	Frontend filter for ISDB-T 1-segment, 1.4 x 1.1 x 0.4 mm³
880 - 915	LP38A	s, i	702 - 862	1.5	QCS9A	Frontend filter for DVB-H, Europe, 3.0 x 2.5 x 0.68 mm³
various		c, s, i	various		various	

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Satellite filters

Center Frequency MHz	Type		Bandwidth 3dB MHz	Package	Features
479.50	B 801	i	18 + 27	QCC8C	2 channel
480.00	B 800	i	27	QCC8C	1 channel; optimized for PAL / NTSC

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