

5. SAW Filter

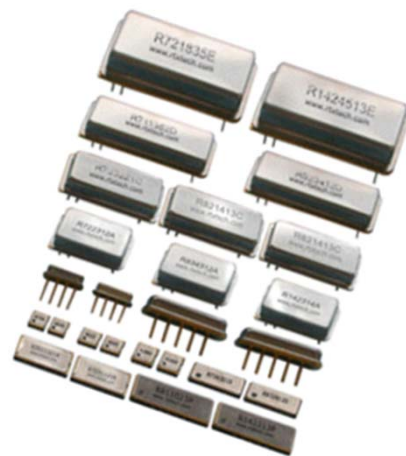


FEATURE

- Excellent Selectivity
- Good Temp. Stability
- Various Bandwidth and Frequency

APPLICATION

- TETRA, GSM, WCDMA, LTE, 5G
- Broadband Wireless Access
- GPS Receiver, Bluetooth, Digital TV



■ SAW Filter

IF SAW Bandpass Filter

Part Number	Center Frequency (MHz)	-3dB BW (MHz)	-40 dB BW (MHz)	I.L (dB)	Passband Ripple (dB)	Delay (µsec)	Ultimate Rejection (dB)	Package
R361802SC4	36.125	8.0	9.44	15.5	0.50	1.33	35	1660 DIP
R381151SS	38.912	1.52	2.85	23.2	-	-	40	1150 SMD
R381151ST	38.912	1.52	2.85	23.2	-	-	40	9048 SMD
R431622SC4	43.75	6.24	7.63	13.0	0.60	1.38	40	1660 DIP
R431582SC4	43.75	5.8	7.50	23.5	0.80	-	40	1660 DIP
R441622SC4	44.00	6.24	7.63	13.0	0.60	1.45	40	1660 DIP
R531452CA	53.00	4.50	6.80	24.00	0.80	2.10	50	2012 DIP
R5921102CD	59.30	11.00	12.55	26.00	1.00	2.90	50	3512 DIP
R601152SA	60.00	1.50	2.35	19.5	0.50	-	45	2012 DIP
R601402CA	60.00	4.00	6.70	-	1.00	1.80	50	2012 DIP
R601692CA	60.00	6.90	8.50	24.00	0.80	2.40	50	2012 DIP
R601942CA	60.00	9.40	11.00	26.00	1.00	2.50	50	2012 DIP
R601942CD	60.00	9.40	10.85	26.50	1.00	3.00	50	3512 DIP
R6021192CA	60.00	11.95	13.60	25.00	1.00	2.20	50	2012 DIP
R6222031SR	62.50	20.35	22.50	20.5	0.65	1.10	12	1365 SMD
R6222042CA	62.50	20.45	-	28.50	1.00	2.08	50	2012 DIP
R621402SD	62.60	4.00	5.00	-	1.00	4.50	50	3512 DIP
R630042SA	63.00	0.436	1.50	14.2	1.00	-	65	2012 DIP
R6321942CC	63.00	19.40	21.30	-	1.00	2.20	50	2712 DIP
R631382CD	63.30	3.80	5.10	22.00	1.00	3.00	50	3512 DIP
R6521962SD	65.00	19.60	20.80	24.5	0.60	2.87	55	3512 DIP
R651382CA	65.00	3.80	6.00	-	1.00	2.30	50	2012 DIP
R651402CD	65.00	4.00	5.20	-	1.00	3.60	50	3512 DIP
R6521942CE	65.00	19.40	20.80	27.00	1.00	3.00	50	3825 DIP
R6521941CR	65.00	19.40	22.50	26.00	1.00	1.30	40	1365 SMD
R6521942CA	65.00	19.40	21.50	25.00	1.00	2.30	50	2012 DIP
R6521942CC	65.00	19.40	21.30	-	1.00	2.50	50	2712 DIP
R681692CD	68.75	6.90	8.00	23.00	1.00	3.40	50	3512 DIP
R681692CC	68.75	6.90	8.30	-	0.80	2.80	50	2712 DIP
R6821182CA	68.75	11.80	13.50	-	1.00	2.20	50	2012 DIP
R6821192CE	68.75	11.90	13.10	-	1.00	3.40	50	3825 DIP
R6821191CR	68.75	11.90	14.50	-	1.00	1.50	45	1365 SMD
R701022CD	70.00	0.20	0.80	-	1.00	4.30	50	3512 DIP
R701022CD	70.00	0.20	0.80	18.50	0.70	4.00	50	3512 DIP
R701032SD	70.00	0.30	0.90	17.5	1.20	3.7	50	3512 DIP
R701031SE	70.00	0.34	1.10	13.5	1.20	2.63	50	3825 DIP
R701051SQ	70.00	0.59	1.39	13.7	0.80	2.5	50	1965 SMD
R701122SA	70.00	1.20	1.95	23.0	0.40	2.6	45	2012 DIP
R701122SA	70.00	1.27	2.11	22.0	0.35	2.54	50	2012 DIP
R701131SQ	70.00	1.30	2.05	18.2	0.50	2.04	45	1965 SMD
R7041182SD	70.00	-	1.8	20.0	0.70	3.45	45	3512 DIP
R7041231SQ	70.00	-	2.36	20.0	0.80	2.6	50	1965 SMD

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Part Number	Center Frequency (MHz)	-3dB BW (MHz)	-40 dB BW (MHz)	I.L (dB)	Passband Ripple (dB)	Delay (µsec)	Ultimate Rejection (dB)	Package
R701172SD	70.00	1.70	2.40	23.5	0.30	3.7	50	3512 DIP
R701172SC	70.00	1.71	2.45	21.6	0.37	3	55	2712 DIP
R701351SR	70.00	3.55	6.18	7.7	0.65	-	-	1365 SMD
R701441SR	70.00	4.45	7.18	8.5	0.80	-	-	1365 SMD
R701432SA	70.00	4.30	5.60	22.5	0.50	2.06	50	2012 DIP
R701452SA	70.00	4.50	5.40	21.5	0.50	2.44	50	2012 DIP
R701561SR	70.00	5.6	8.5	8.5	0.60	-	-	1365 SMD
R701572SA	70.00	5.70	6.60	22.0	1.00	2.38	50	2012 DIP
R70157SC4	70.00	5.76	7.95	9.0	0.60	-	-	1660 DIP
R701651SR	70.00	6.5	9.5	8.2	0.70	-	-	1365 SMD
R701692SC	70.00	6.90	8.20	23.5	0.60	2.865	50	2712 DIP
R701781SR	70.00	7.8	11.0	8.6	0.65	-	-	1365 SMD
R701732SC	70.00	7.30	8.58	20.0	1.00	2.95	-	2712 DIP
R701872SA	70.00	8.70	10.20	20.0	0.70	2.55	50	2012 DIP
701931SR	70.00	9.3	11.70	10.8	0.70	-	-	1365 SMD
R701931SR	70.00	9.30	10.70	23.0	0.90	1.59	40	1365 SMD
R701962SC4	70.00	9.60	11.58	10.5	0.60	-	-	1660 DIP
R701942SA	70.00	9.45	10.75	20.5	0.60	2.330	55	2012 DIP
R701952SA	70.00	9.50	10.82	20.5	0.60	2.330	55	2012 DIP
R701952SD	70.00	9.52	10.28	28.5	0.65	4.40	55	3512 DIP
R701981SR	70.00	9.80	11.70	23.0	0.80	1.59	40	1365 SMD
R7021052SA	70.00	10.50	11.95	21.0	0.7	2.31	55	2012 DIP
R7021242SA	70.00	12.40	14.00	23.0	0.80	2.28	50	2012 DIP
R7021641SR	70.00	16.40	20.02	12.20	0.50	-	-	1365 SMD
R7021862SD	70.00	18.65	19.50	25.5	0.60	4.43	55	3512 DIP
R7021902SD	70.00	19.05	20.00	25.5	0.70	3.22	55	3512 DIP
R7022001SR	70.00	20.05	24.08	15.5	0.50	-	-	1365 SMD
R7021952SA	70.00	19.50	21.40	24.5	0.85	1.98	50	2012 DIP
R7021952SA	70.00	19.57	21.43	24.5	0.85	1.98	50	2012 DIP
R7021962SA	70.00	19.60	21.45	24.0	0.80	-	55	2012 DIP
R7022042SA	70.00	20.40	21.70	22.8	0.70	2.34	50	2012 DIP
R7022052SD	70.00	20.55	21.69	22.0	0.70	2.65	55	3512 DIP
R7022052SD	70.00	20.55	21.81	23.5	0.6	2.83	60	3512 DIP
R7022562SA	70.00	25.65	28.50	26.5	0.70	1.64	50	2012 DIP
R7022622SD	70.00	26.25	28.45	24.2	0.7	1.876	55	3512 DIP
R701022CD	70.00	0.25	1.00	23.50	1.00	3.70	50	3512 DIP
R701072CC	70.00	0.75	1.80	-	0.50	3.50	50	2712 DIP
R701122CA	70.00	1.20	2.50	22.50	0.80	2.50	50	2012 DIP
R701122CD	70.00	1.20	2.20	-	0.70	3.50	50	3512 DIP
R701122CE	70.00	1.20	-	24.00	0.80	4.90	50	3825 DIP
R701122CC	70.00	1.25	2.15	25.00	0.80	3.20	50	2712 DIP
R701142CD	70.00	1.40	2.30	-	0.80	4.00	50	3512 DIP
R701142CA	70.00	1.40	3.00	-	1.00	2.30	45	2012 DIP
R701152CA	70.00	1.50	3.00	22.50	1.00	2.60	50	2012 DIP

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R701152CC	70.00	1.50	2.80	25.00	0.70	2.90	50	2712 DIP
R701152CC	70.00	1.50	3.00	25.50	0.80	2.30	50	2712 DIP
R701172CD	70.00	1.70	2.80	21.00	1.00	3.30	50	3512 DIP
R701182CD	70.00	1.80	3.00	-	0.80	5.08	50	3512 DIP
R701202CA	70.00	2.00	3.80	25.00	0.80	2.90	50	2012 DIP
R701222CD	70.00	2.20	-	23.00	0.80	4.90	50	3512 DIP
R701272CD	70.00	2.70	3.80	24.50	1.00	4.20	50	3512 DIP
R701302CA	70.00	3.00	4.80	24.00	0.80	1.90	50	2012 DIP
R701302CD	70.00	3.00	4.80	26.50	0.80	4.20	50	3512 DIP
R701322CD	70.00	3.20	4.40	-	1.00	5.00	50	3512 DIP
R701352CA	70.00	3.50	5.60	25.00	0.80	2.70	50	2012 DIP
R701362CD	70.00	3.60	-	24.50	0.80	5.00	50	3512 DIP
R701382CA	70.00	3.80	5.30	25.00	0.80	2.00	50	2012 DIP
R701402CA	70.00	4.00	6.00	20.00	1.00	2.50	50	2012 DIP
R701402CA	70.00	4.00	6.00	23.00	0.80	1.80	50	2012 DIP
R701402CA	70.00	4.00	7.20	17.00	1.00	1.40	50	2012 DIP
R701402CD	70.00	4.00	5.20	-	1.00	4.00	50	3512 DIP
R701402CD	70.00	4.00	5.00	-	1.00	5.30	50	3512 DIP
R701412CD	70.00	4.15	-	-	1.00	3.70	50	3512 DIP
R701422CA	70.00	4.20	6.00	25.00	1.00	2.10	50	2012 DIP
R701432CD	70.00	4.30	5.50	-	1.00	4.00	50	3512 DIP
R701442CD	70.00	4.40	5.60	-	1.00	4.00	50	3512 DIP
R701452CD	70.00	4.50	5.80	22.50	1.00	3.82	50	3512 DIP
R701482CD	70.00	4.80	6.10	21.50	0.80	2.90	50	3512 DIP
R701502CA	70.00	5.00	7.30	21.50	0.80	2.10	50	2012 DIP
R701502CD	70.00	5.00	-	21.00	1.00	4.60	50	3512 DIP
R701552CD	70.00	5.50	-	23.00	1.00	2.89	50	3512 DIP
R701562CC	70.00	5.60	7.20	21.50	0.80	2.60	50	2712 DIP
R701602CA	70.00	6.00	8.00	23.00	0.80	2.30	50	2012 DIP
R701642CA	70.00	6.40	8.30	-	0.80	2.30	50	2012 DIP
R701652CC	70.00	6.50	8.90	22.00	0.80	2.20	50	2712 DIP
R701652CD	70.00	6.50	9.60	-	1.00	4.00	50	3512 DIP
R701672CD	70.00	6.70	-	24.50	1.00	4.00	50	3512 DIP
R701692CA	70.00	6.90	8.50	24.00	0.80	2.50	50	2012 DIP
R701702CA	70.00	7.00	9.70	22.50	1.00	1.90	50	2012 DIP
R701722CA	70.00	7.20	9.50	21.50	1.00	1.80	50	2012 DIP
R701732CD	70.00	7.30	8.70	22.50	1.00	3.30	50	3512 DIP
R701752CD	70.00	7.50	8.50	27.00	1.00	4.20	50	3512 DIP
R701752CE	70.00	7.50	8.50	-	1.00	4.40	50	3825 DIP
R701802CA	70.00	8.00	10.60	24.00	0.80	1.60	50	2012 DIP
R701842CC	70.00	8.40	10.10	-	1.00	2.40	50	2712 DIP
R701852CA	70.00	8.50	10.70	25.50	0.80	2.10	50	2012 DIP
R701902CA	70.00	9.00	11.00	24.50	1.00	2.40	50	2012 DIP
R701902CD	70.00	9.00	10.00	25.50	1.00	4.00	50	3512 DIP

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Part Number	Center Frequency (MHz)	-3dB BW (MHz)	-40 dB BW (MHz)	I.L (dB)	Passband Ripple (dB)	Delay (µsec)	Ultimate Rejection (dB)	Package
R701942CA	70.00	9.40	11.00	22.00	1.00	2.30	50	2012 DIP
R701942CD	70.00	9.40	10.35	27.50	1.00	4.30	50	3512 DIP
R701942CD	70.00	9.40	10.50	26.50	1.00	3.70	50	3512 DIP
R701952CE	70.00	9.50	10.55	25.00	1.00	3.80	50	3825 DIP
R701962CA	70.00	9.60	11.40	22.50	1.00	2.30	50	2012 DIP
R701962CD	70.00	9.60	11.00	24.50	1.00	2.90	50	3512 DIP
R701961CR	70.00	9.60	12.60	-	1.00	1.50	45	1365 SMD
R7021002CD	70.00	10.00	-	25.00	1.00	3.10	50	3512 DIP
R7021002CD	70.00	10.00	10.80	27.50	1.00	4.00	50	3512 DIP
R7021002CA	70.00	10.00	12.80	24.00	0.80	1.60	50	2012 DIP
R7021022CD	70.00	10.20	11.10	26.00	1.00	3.80	50	3512 DIP
R7021052CD	70.00	10.50	11.80	26.00	1.00	3.50	50	3512 DIP
R7021052CA	70.00	10.50	12.10	24.50	0.80	2.30	50	2012 DIP
R7021052CD	70.00	10.50	-	26.00	1.00	3.90	50	3512 DIP
R7021082CA	70.00	10.80	12.60	-	0.80	2.20	50	2012 DIP
R7021102CA	70.00	11.00	12.80	25.00	1.00	2.30	50	2012 DIP
R7021102CA	70.00	11.00	13.20	25.00	1.00	2.10	50	2012 DIP
R7021102CD	70.00	11.00	-	-	1.00	3.75	50	3512 DIP
R7021122CE	70.00	11.20	12.10	26.00	1.00	4.20	50	3825 DIP
R7021132CD	70.00	11.30	12.55	25.50	1.00	3.30	50	3512 DIP
R7021142CA	70.00	11.40	13.70	24.00	1.00	2.00	50	2012 DIP
R7021192CA	70.00	11.95	13.60	25.00	0.80	2.40	50	2012 DIP
R7021282CC	70.00	12.80	14.50	-	0.80	2.60	50	2712 DIP
R7021302CA	70.00	13.00	14.90	25.00	1.00	2.18	50	2012 DIP
R7021452CD	70.00	14.50	15.90	28.00	1.00	2.80	50	3512 DIP
R7021452CA	70.00	14.50	16.20	-	1.00	2.20	50	2012 DIP
R7021532CD	70.00	15.30	17.20	-	1.00	2.30	50	3512 DIP
R7021842CC	70.00	18.40	20.60	-	1.00	1.80	50	2712 DIP
R7021902CD	70.00	19.00	20.80	28.00	1.00	2.60	50	3512 DIP
R7021902CD	70.00	19.00	-	25.50	1.00	3.40	50	3512 DIP
R7021942CE	70.00	19.40	20.80	27.00	1.00	3.00	50	3825 DIP
R7021952CA	70.00	19.50	21.70	33.00	1.00	2.20	50	2012 DIP
R7021952CA	70.00	19.50	22.30	-	1.00	2.00	50	2012 DIP
R7021952CA	70.00	19.50	21.30	26.50	1.00	2.20	50	2012 DIP
R7021961CR	70.00	19.60	22.10	26.00	1.00	1.50	50	1365 SMD
R7022002CA	70.00	20.02	22.30	27.50	1.00	2.20	50	2012 DIP
R7022062CD	70.00	20.60	22.00	-	1.00	2.70	50	3512 DIP
R7022452CA	70.00	24.50	28.50	27.00	0.80	1.20	50	2012 DIP
R7022482CD	70.00	24.80	-	30.00	1.00	2.60	50	3512 DIP
R7022582CA	70.00	25.80	29.50	27.00	1.00	1.60	50	2012 DIP
R7022652CA	70.00	26.50	29.50	28.00	1.00	1.45	50	2012 DIP
R711021SR	71.00	0.24	-	6.0	-	-	40	1365 SMD
R711692CE	71.25	6.90	8.20	-	1.00	3.50	50	3825 DIP
R711692CA	71.25	6.90	8.50	-	1.00	2.30	50	2012 DIP

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R7121182CA	71.25	11.80	13.50	-	1.00	2.20	50	2012 DIP
R7121192CD	71.25	11.90	13.00	25.50	1.00	3.20	50	3512 DIP
R7121192CA	71.25	11.90	13.50	-	1.00	2.20	50	2012 DIP
R7121192CC	71.25	11.90	13.30	-	0.80	2.50	50	2712 DIP
R7121191CR	71.25	11.90	14.50	-	1.00	1.50	45	1365 SMD
R721402CD	72.40	4.00	5.00	-	1.00	4.10	50	3512 DIP
R721122SA	72.50	1.20	1.95	23.0	0.40	2.6	50	2012 DIP
R751122SA	75.00	1.20	1.95	23.0	0.40	2.6	50	2012 DIP
R7521921SR	75.00	19.25	21.15	23.5	0.70	1.10	42	1365 SMD
R7522001SR	75.00	20.00	22.00	23.0	0.70	1.10	42	1365 SMD
R7521952SD	75.00	19.54	20.70	23.5	0.70	-	55	3512 DIP
R7521942SD	75.00	19.40	20.62	24.3	0.70	-	50	3512 DIP
R7521912SD	75.00	19.17	20.36	24.5	0.70	2.87	55	3512 DIP
R751611SR	75.00	6.10	8.60	17.0	0.35	-	45	1365 SMD
R7521942CE	75.00	19.40	20.80	27.00	1.00	3.00	50	3825 DIP
R7521941CR	75.00	19.40	22.50	25.00	1.00	1.30	40	1365 SMD
R7521942CA	75.00	19.40	21.50	25.00	1.00	2.30	50	2012 DIP
R7521942CA	75.00	19.40	21.30	-	1.00	2.50	50	2012 DIP
R7521952CA	75.00	19.50	25.50	25.50	1.00	1.30	50	2012 DIP
R7522002CA	75.00	20.00	24.00	25.50	1.00	1.40	50	2012 DIP
R7522022CA	75.00	20.20	23.10	-	1.00	2.10	50	2012 DIP
R7524062CA	75.00	40.60	44.20	32.50	1.00	1.50	45	2012 DIP
R751482CA	75.50	4.80	7.70	19.00	1.00	1.50	50	2012 DIP
R771042CD	77.50	0.45	1.00	23.00	0.70	4.70	50	3512 DIP
R781602SA	78.60	6.00	7.87	18.1	0.70	2.10	50	2012 DIP
R7821192CD	78.75	11.90	13.00	25.50	1.00	3.20	50	3512 DIP
R7821192CC	78.75	11.90	13.30	-	0.80	2.50	50	2712 DIP
R791402CD	79.80	4.00	5.00	-	1.00	5.00	50	3512 DIP
R8022532SD	80.00	25.35	26.90	25.0	0.7	2.44	55	3512 DIP
R801692CA	80.00	6.90	8.60	22.00	0.80	2.40	50	2012 DIP
R801882CA	80.00	8.80	10.60	24.50	1.00	2.30	50	2012 DIP
R801942CA	80.00	9.40	11.00	25.00	1.00	2.20	50	2012 DIP
R801942CD	80.00	9.40	10.45	26.50	1.00	3.50	50	3512 DIP
R8021192CA	80.00	11.95	13.60	25.00	0.80	2.30	50	2012 DIP
R8021232CD	80.00	12.30	13.70	23.50	1.00	2.80	50	3512 DIP
R8021942CA	80.00	19.40	21.20	-	1.00	2.20	50	2012 DIP
R8022022CA	80.00	20.20	22.60	-	1.00	2.50	50	2012 DIP
R8021122CA	80.70	11.22	12.80	25.2	0.80	-	50	2012 DIP
R8021102CD	80.80	11.00	12.65	25.00	1.00	2.50	50	3512 DIP
R811692CD	81.25	6.90	8.20	-	0.80	2.60	50	3512 DIP
R811692CD	81.25	6.95	8.00	23.00	1.00	3.30	50	3512 DIP
R851182CA	85.20	1.80	3.50	24.50	0.80	3.50	50	2012 DIP
R851202CC	85.20	2.00	4.00	-	0.80	3.10	50	2712 DIP
R851131CT	85.38	1.34	1.73	10.2	0.8	-	-	9050 SMD

■ SAW Filter

IF SAW Bandpass Filter

Part Number	Center Frequency (MHz)	-3dB BW (MHz)	-40 dB BW (MHz)	I.L (dB)	Passband Ripple (dB)	Delay (µsec)	Ultimate Rejection (dB)	Package
R891182CD	89.80	1.80	3.20	-	0.80	4.10	50	3512 DIP
R9021192CD	90.00	11.90	3.30	-	1.00	2.50	50	3512 DIP
R981352CA	95.00	3.50	5.50	31.50	0.80	2.00	45	2012 DIP
R951352CD	95.00	3.50	5.50	30.50	0.80	3.40	50	3512 DIP
R951502CD	95.00	5.00	6.50	23.50	1.00	3.40	50	3512 DIP
R9521952CA	95.00	19.50	22.00	32.00	1.00	2.10	50	2012 DIP
R1001051CQ	100.00	0.550	1.38	13.7	0.80	2.4	50	1965 SMD
R10021922SD	100.00	19.230	20.30	24.5	0.85	2.67	55	3512 DIP
R10021902SD	100.00	19.05	20.15	24.5	0.85	2.70	55	3512 DIP
R1001591CR	100.00	5.90	8.00	17.00	1.00	1.60	45	1365 SMD
R10021952CA	100.00	19.50	21.60	29.50	1.00	2.00	50	2012 DIP
R1101081CU	110.59	0.80	-	10.50	1.00	0.90	35	7050 SMD
R1141202CA	114.99	2.05	3.44	20.0	0.30	1.9	55	2012 DIP
R11522652SD	115.00	26.25	28.60	23.1	0.70	1.573	55	3512 DIP
R1151152CC	115.00	1.50	2.80	23.00	0.60	2.70	50	2712 DIP
R1151531CR	115.00	5.30	8.30	24.00	1.00	1.80	50	1365 SMD
R1151702CA	115.00	7.00	8.80	24.00	0.80	2.30	50	2012 DIP
R1151752CA	115.00	7.50	10.00	-	1.00	1.7	50	2012 DIP
R1151942CA	115.00	9.40	10.90	23.00	1.00	2.45	50	2012 DIP
R1151942CD	115.00	9.40	10.90	25.00	1.00	2.70	50	3512 DIP
R1151942CA	115.00	9.40	11.00	23.50	1.00	2.40	50	2012 DIP
R11521042CD	115.00	10.40	11.80	-	1.00	2.80	50	3512 DIP
R11521052CA	115.00	10.50	12.10	25.00	1.00	2.30	50	2012 DIP
R11521082CA	115.00	10.80	12.50	-	0.80	2.20	50	2012 DIP
R13022002CA	130.00	20.00	22.70	24.50	1.00	1.70	50	2012 DIP
R1371402CD	137.40	4.00	5.00	-	1.50	5.00	45	3512 DIP
R1151432C4	115.24	4.3	4.5	21.0	0.7	1.68	45	1660 DIP
R1201162SC	120.00	1.60	1.74	18.5	0.60	3.45	55	2712 DIP
R12921132SA	129.30	11.35	13.30	22.0	0.75	1.98	50	2012 DIP
R1331392SA	133.00	3.90	5.40	22.5	0.40	-	45	2012 DIP
R1401032SC	140.00	0.31	0.84	21.0	-	3.616	50	2712 DIP
R1401762SA	140.00	7.60	9.50	22.5	0.40	2.84	55	2012 DIP
R1401991SR	140.00	9.90	13.5	10.5	0.7	-	-	1365 SMD
R1401981SR	140.00	9.80	12.00	21.0	0.80	-	45	1365 SMD
R14021222SA	140.00	12.24	14.56	22.3	0.70	1.62	55	2012 DIP
R14021881SR	140.00	18.85	20.95	21.5	0.75	1.56	50	1365 SMD
R14022552SA	140.00	25.50	28.60	21.5	0.70	1.20	50	2012 DIP
R14023542SA	140.00	35.40	40.40	22.2	0.65	0.96	60	2012 DIP
R1401082CD	140.00	0.18	0.80	19.00	0.50	4.90	50	3512 DIP
R1401022CD	140.00	0.25	0.95	18.00	0.30	2.90	50	3512 DIP
R1401092CD	140.00	0.95	1.70	20.50	0.80	4.30	50	3512 DIP
R1401152CC	140.00	1.50	2.70	25.00	0.70	2.74	50	2712 DIP
R1401232CA	140.00	2.30	4.20	26.00	0.80	1.90	50	2012 DIP
R1401302CA	140.00	3.00	4.80	27.00	0.70	2.50	50	2012 DIP

■ SAW Filter

IF SAW Bandpass Filter

Part Number	Center Frequency (MHz)	-3dB BW (MHz)	-40 dB BW (MHz)	I.L (dB)	Passband Ripple (dB)	Delay (µsec)	Ultimate Rejection (dB)	Package
R1401502CA	140.00	5.00	7.00	25.50	1.00	2.60	50	2012 DIP
R1401602CA	140.00	6.00	7.80	-	1.00	2.60	50	2012 DIP
R1401622CA	140.00	6.20	8.30	25.50	1.00	3.30	50	2012 DIP
R1401702CA	140.00	7.00	9.30	24.50	1.00	3.00	50	2012 DIP
R1401802CA	140.00	8.00	10.40	22.00	1.00	1.80	50	2012 DIP
R1401902CA	140.00	9.00	11.70	-	0.70	1.70	500	2012 DIP
R14021002CA	140.00	10.00	12.50	24.00	0.80	1.80	50	2012 DIP
R14021202CA	140.00	12.00	15.00	25.00	1.00	1.80	50	2012 DIP
R14021402CA	140.00	14.00	17.00	25.00	1.00	1.60	50	2012 DIP
R14021532CA	140.00	15.30	17.20	25.50	1.00	2.10	50	2012 DIP
R14021602CA	140.00	16.00	19.80	23.50	0.80	1.20	50	2012 DIP
R14021952CA	140.00	19.50	22.00	25.00	1.00	1.60	50	2012 DIP
R14022002CA	140.00	20.00	24.00	24.00	1.00	1.40	50	2012 DIP
R14022052CA	140.00	20.50	22.90	26.00	0.80	1.60	50	2012 DIP
R14022402CA	140.00	24.00	29.50	25.00	1.00	1.20	50	2012 DIP
R14022522CA	140.00	25.20	30.30	-	0.80	0.90	50	2012 DIP
R14022802CA	140.00	28.00	33.30	25.50	1.00	1.00	50	2012 DIP
R14023002CA	140.00	30.00	36.00	26.00	0.80	0.90	50	2012 DIP
R14023222CA	140.00	32.20	38.50	-	0.80	0.90	50	2012 DIP
R14023992CA	140.00	39.95	47.00	25.00	1.00	1.10	50	2012 DIP
R14024402CA	140.00	44.00	49.00	26.00	1.00	1.10	50	2012 DIP
R1461382CA	146.90	3.80	5.70	23.5	0.40	1.33	45	2012 DIP
R1471402CD	147.20	4.00	5.00	-	1.50	4.90	45	3512 DIP
R1501151SQ	150.00	1.54	2.22	19.0	0.35	2.45	50	1965 SMD
R1501582CA	150.00	5.80	9.00	25.50	0.80	1.90	50	2012 DIP
R1501942CA	150.00	9.40	11.00	24.50	1.00	2.30	50	2012 DIP
R1501942CD	150.00	9.40	10.80	23.50	1.00	2.80	50	3512 DIP
R15021602CA	150.00	16.00	18.60	22.00	1.00	1.70	50	2012 DIP
R15021952CA	150.00	19.50	21.40	-	1.00	2.10	50	2012 DIP
R1531231CQ	153.00	2.30	3.30	19.0	0.45	2.2	45	1965 SMD
R1551492CA	155.00	4.95	6.50	22.00	1.00	2.80	50	2012 DIP
R15521961CR	155.00	19.60	22.00	-	-	-	-	1365 SMD
R15521942CA	155.10	19.40	21.40	25.00	1.00	2.10	50	2012 DIP
R1601161SQ	160.00	1.60	2.20	18.0	0.49	2.5	50	1965 SMD
R1601221SQ	160.00	2.25	2.38	17.0	0.53	2.5	55	1965 SMD
R16022022SD	160.00	20.27	21.55	23.0	0.95	-	55	3512 DIP
R1601402CD	160.00	4.00	5.80	31.50	0.80	3.50	50	3512 DIP
R1601502CA	160.00	5.00	6.60	25.00	1.00	2.80	50	2012 DIP
R1601531CR	160.00	5.30	8.30	22.50	1.00	1.60	50	1365 SMD
R1601902CD	160.00	9.00	10.70	25.50	1.00	2.80	50	3512 DIP
R1601932CD	160.00	9.30	10.85	26.50	1.00	3.00	50	3512 DIP
R1601942CA	160.00	9.40	11.00	25.00	1.00	2.90	50	2012 DIP
R1601942CA	160.00	9.40	11.00	24.50	1.00	2.30	50	2012 DIP
R1601991CR	160.00	9.90	12.50	23.50	1.00	1.80	45	1365 SMD

■ SAW Filter

IF SAW Bandpass Filter

Part Number	Center Frequency (MHz)	-3dB BW (MHz)	-40 dB BW (MHz)	I.L (dB)	Passband Ripple (dB)	Delay (µsec)	Ultimate Rejection (dB)	Package
R16021602CA	160.00	16.00	19.70	25.50	0.80	1.40	55	2012 DIP
R16021952CA	160.00	19.50	21.80	25.50	1.00	1.60	50	2012 DIP
R16021952CC	160.00	19.50	21.20	26.00	1.00	2.20	50	2712 DIP
R16021952CD	160.00	19.50	21.20	26.00	1.00	2.20	50	3512 DIP
R16022002CA	160.00	20.00	25.00	25.50	0.80	1.17	55	2012 DIP
R16022032CD	160.00	20.30	21.80	-	1.00	2.40	50	3512 DIP
R16022072CA	160.00	20.70	23.00	-	1.00	1.60	50	2012 DIP
R16022082CA	160.00	20.80	23.30	-	1.00	2.30	50	2012 DIP
R16022081CR	160.00	20.80	24.30	-	1.00	1.20	45	1365 SMD
R16022152CA	160.00	21.50	24.30	-	1.00	1.40	80	2012 DIP
R16023202CA	160.00	32.00	39.20	26.00	0.80	0.80	50	2012 DIP
R1611692CA	161.25	6.90	8.50	-	1.00	2.60	50	2012 DIP
R16121192CA	161.25	11.90	13.50	-	1.00	2.70	50	2012 DIP
R16521202CA	165.00	12.00	14.30	-	1.00	2.30	50	2012 DIP
R1701951CR	170.00	9.50	12.30	21.00	1.00	2.00	45	1365 SMD
R17021222CD	170.00	12.20	13.90	-	1.00	2.40	50	3512 DIP
R17021952CA	170.00	19.50	22.80	23.50	1.00	1.50	50	2012 DIP
R1801942CA	180.00	9.40	11.00	31.00	1.00	3.30	50	2012 DIP
R1901131CQ	190.00	1.30	1.8	19.0	0.50	-	38	1965 SMD
R1901171CQ	190.00	1.70	2.50	17.5	0.45	2.54	45	1965 SMD
R1901401SQ	190.00	4.00	5.70	21.0	0.7	2.16	45	1965 SMD
R24021932CA	240.00	19.35	22.00	26.00	1.00	1.40	50	2012 DIP
R28021932CA	280.00	19.35	22.00	26.00	1.20	1.40	45	2012 DIP
R31021932CA	310.00	19.35	22.00	26.00	1.20	1.40	45	2012 DIP
R3371151CR	337.25	1.50	2.00	25.00	1.00	0.98	50	1365 SMD
R3601031SV	360.00	0.30	1.00	5.2	1.5	-	-	5050 SMD
R3601031SW	360.00	0.3	0.8	5.0	1.5	-	-	3838 SMD
R37421701CV	374.00	17.00	-	-	1.00	-	40	5050 SMD
R4871151CR	487.25	1.50	5.50	23.00	1.00	0.77	50	1365 SMD

SAW Delay Line

Part Number	Center Freq. (MHz)	Bandwidth (MHz)	I.L (dB)	Absolute Delay (µsec)	Package
65SD201	65	20	14.8	2.40	1365 SMD
70SD201	70	20	14	2.46	1365 SMD
160D251	160	27.9	31	19.10	7420 DIP
160D252	160	28.3	29	10.80	7420 DIP
836D252	836.5	45	32	10.02	7420 DIP
836D251	836.5	48	23	5.04	3512 DIP
836D253	836.5	48	30	15.02	7420 DIP
881D251	881.5	55	25	5.00	3512 DIP
881D252	881.5	61	30	10.00	7420 DIP
881D253	881.5	64.5	32	15.04	7420 DIP

■ SAW Filter

PACKAGE DIMENSION: DIP TYPE

DIP2012 (A)	DIP2512 (B)
<p>Technical drawing of DIP2012 (A) package showing top, side, and pin layout views with dimensions: 0.5±0.05, 5.0, 4.5, 20.1, 15.24, 7.62, 12.5, 12.7, 2.54.</p>	<p>Technical drawing of DIP2512 (B) package showing top, side, and pin layout views with dimensions: 12.7±0.5, 24.6±0.5, 5.5max, 6.0max, 0.45±0.05, 2.5±0.2, 7.6±0.2, 2.5±0.2, 15.3±0.2.</p>
DIP2712 (C)	DIP3512 (D)
<p>Technical drawing of DIP2712 (C) package showing top, side, and pin layout views with dimensions: 12.7±0.5, 27.3±0.5, 5.5max, 6.0max, 0.45±0.05, 2.5±0.2, 7.6±0.2, 2.5±0.2, 17.7±0.2.</p>	<p>Technical drawing of DIP3512 (D) package showing top, side, and pin layout views with dimensions: 12.8±0.5, 35.1±0.5, 5.5max, 6.0max, 0.45±0.05, 2.5±0.2, 7.6±0.2, 2.5±0.2, 25.4±0.2.</p>
DIP3825 (E)	DIP7420 (F)
<p>Technical drawing of DIP3825 (E) package showing top, side, and pin layout views with dimensions: 25.5±0.5, 38.3±0.5, 5.5max, 6.0max, 0.45±0.05, 15.2±0.2, 20.3±0.2, 22.8±0.2, A±0.01, A.</p>	<p>Technical drawing of DIP7420 (F) package showing top, side, and pin layout views with dimensions: 20.3±0.5, 5.7max, 6.0max, 15.2±0.2, 74.0±0.5, 27.9±0.2, 0.45±0.05, 5.1±0.2, 10.2±0.2, 30.4±0.2, 50.4±0.2, 68.5±0.2.</p>

■ SAW Filter

PACKAGE DIMENSION: SMD TYPE

SMD2520 (Z)	SMD3025 (Y)	SMD3030 (X)	SMD3838 (W)
SMD5050 (V)	SMD7050 (U)	SMD9048 (T)	SMD1150 (S)
SMD1365 (R)	SMD1965 (Q)	SMD2490 (P)	