

RC Series

Chebyshev

Frequency Range from I kHz to 200 MHz

Application-Specific Designs

RC3 3 (6) ≤ 1.0 20 to 30 -50 0.995 x fn 1.005 x fn RC3 3 (6) ≤ 1.0 -50 to 60 -50 0.990 x fn 1.010 x fn > 40 to 50 -50 0.994 x fn 1.016 x fn -50 to 60 -50 0.998 x fn 1.020 x fn > 60 to 70 -50 0.997 x fn 1.025 x fn -70 to 80 -50 0.996 x fn 1.032 x fn > 70 to 80 -50 0.996 x fn 1.032 x fn 1.032 x fn 1.040 x fn > 80 to 90 -50 0.996 x fn 1.032 x fn 1.040 x fn > 80 to 90 -50 0.996 x fn 1.032 x fn 1.040 x fn > 20 to 30 -50 0.996 x fn 1.032 x fn 1.040 x fn > 80 to 90 -50 0.996 x fn 1.032 x fn 1.040 x fn > 80 to 80 -50 0.996 x fn 1.032 x fn 1.040 x fn > 80 to 80 -50 0.990 x fn 1.032 x fn 1.032 x fn > 80 to 80 -50 0.990 x fn 1.030 x fn	SERIES NUMBER	NUMBER OF POLE PAIRS (ELEMENTS)	INSERTION LOSS at 0.1 x f _n dB	BANDWIDTH SELECTION -3dBc % f _n	STOPBAND ATTENUATION FREQUENCY dBc MINIMUM 1 2
RC3 3 (6) \$ 1.0 \$ 30 to 40 -50 0.990 x fn 1.010 x fn >A0 to 50 -50 0.990 x fn 1.010 x fn 1.010 x fn >A0 to 50 -50 0.990 x fn 1.010 x fn 1.010 x fn >S0 to 60 -50 0.990 x fn 1.020 x fn 1.022 x fn >P0 to 100 -50 0.996 x fn 1.040 x fn 1.040 x fn >90 to 100 -50 0.996 x fn 1.040 x fn 1.040 x fn 20 to 30 -50 0.996 x fn 1.040 x fn 1.040 x fn >30 to 40 -50 0.996 x fn 1.040 x fn 1.040 x fn >30 to 40 -50 0.996 x fn 1.040 x fn 1.040 x fn >30 to 40 -50 0.996 x fn 1.022 x fn 1.040 x fn >30 to 40 -50 0.996 x fn 1.022 x fn 1.040 x fn >30 to 40 -50 0.996 x fn 1.020 x fn 1.050 x fn >80 to 90 -50 0.990 x fn 1.020 x fn 1.050 x fn >80 to 90		NOTC	CH FREQUENCY – 1 kHz to 200	MHz – specify any fn within that	t range
RC3 3 (6) \$1.0 \$40 to 50 -50 0.984 x f_n 1.016 x f_n >60 to 70 -50 0.990 x f_n 1.025 x f_n 1.025 x f_n >70 to 80 -50 0.965 x f_n 1.025 x f_n 1.025 x f_n >70 to 80 -50 0.965 x f_n 1.032 x f_n 1.032 x f_n >80 to 90 -50 0.965 x f_n 1.040 x f_n 1.015 x f_n >90 to 100 -50 0.965 x f_n 1.040 x f_n 1.015 x f_n >90 to 100 -50 0.968 x f_n 1.015 x f_n 1.015 x f_n >30 to 40 -50 0.965 x f_n 1.040 x f_n 1.015 x f_n >40 to 50 -50 0.965 x f_n 1.040 x f_n 1.005 x f_n >40 to 50 -50 0.960 x f_n 1.040 x f_n 1.050 x f_n >80 to 90 -50 0.950 x f_n 1.060 x f_n 1.060 x f_n >80 to 90 -50 0.920 x f_n 1.060 x f_n 1.060 x f_n >80 to 90 -50 0.920 x f_n 1.060 x f_n 1.060 x f_n				20 to 30	-50 0.995 x f _n 1.005 x f _n
RC3 3 (6) \$ 1.0 > 50 to 60 -50 0.980 x fn 1.020 x fn > 70 to 80 -50 0.975 x fn 1.032 x fn 1.032 x fn > 70 to 80 -50 0.986 x fn 1.032 x fn > 80 to 90 -50 0.986 x fn 1.032 x fn > 80 to 90 -50 0.986 x fn 1.032 x fn > 80 to 90 -50 0.986 x fn 1.032 x fn > 80 to 90 -50 0.986 x fn 1.032 x fn > 90 to 100 -50 0.986 x fn 1.032 x fn > 80 to 90 -50 0.986 x fn 1.032 x fn > 80 to 90 -50 0.986 x fn 1.032 x fn > 40 to 50 -50 0.986 x fn 1.032 x fn > 80 to 90 -50 0.980 x fn 1.080 x fn > 80 to 90 -50 0.990 x fn 1.080 x fn > 80 to 90 -50 0.990 x fn 1.080 x fn > 80 to 90 -50 0.990 x fn 1.080 x fn > 80 to 100 -50 0.990 x fn				> 30 to 40	-50 0.990 x f _n 1.010 x f _n
RC4 4 (8) ≤ 1.0 > 60 to 70 -50 0.975 x fn 1.025 x fn > 70 to 80 -50 0.966 x fn 1.032 x fn > 90 to 100 -50 0.966 x fn 1.032 x fn > 90 to 100 -50 0.966 x fn 1.040 x fn > 90 to 100 -50 0.966 x fn 1.040 x fn > 30 to 40 -50 0.966 x fn 1.042 x fn > 40 to 50 -50 0.966 x fn 1.042 x fn > 40 to 50 -50 0.966 x fn 1.045 x fn > 40 to 50 -50 0.966 x fn 1.022 x fn > 40 to 50 -50 0.966 x fn 1.052 x fn > 50 to 60 -50 0.990 x fn 1.020 x fn > 70 to 80 -50 0.990 x fn 1.020 x fn > 50 to 100 -50 0.990 x fn 1.020 x fn > 80 to 90 -50 0.990 x fn 1.020 x fn > 30 to 40 -50 0.990 x fn 1.032 x fn > 80 to 90 -50 0.990 x fn 1.020 x fn > 50 to 60 -50 0.990 x fn 1.035 x fn				> 40 to 50	-50 0.984 x f _n 1.016 x f _n
$ \begin{array}{ c c c c c c } & > 70 \ 10 \ 80 & -50 & 0.968 \ x \ 1 & 1.032 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.966 \ x \ 1 & 1.035 \ x \ 1 \\ & > 90 \ 10 \ 100 & -50 & 0.966 \ x \ 1 & 1.040 \ x \ 1 \\ & > 90 \ 10 \ 100 & -50 & 0.968 \ x \ 1 & 1.015 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.976 \ x \ 1 & 1.024 \ x \ 1 \\ & > 40 \ 10 \ 50 & -50 & 0.968 \ x \ 1 & 1.024 \ x \ 1 \\ & > 40 \ 10 \ 50 & -50 & 0.968 \ x \ 1 & 1.024 \ x \ 1 \\ & > 40 \ 10 \ 50 & -50 & 0.968 \ x \ 1 & 1.024 \ x \ 1 \\ & > 40 \ 10 \ 50 & -50 & 0.968 \ x \ 1 & 1.024 \ x \ 1 \\ & > 40 \ 10 \ 50 & -50 & 0.968 \ x \ 1 & 1.025 \ x \ 1 \\ & > 60 \ 10 \ 70 & -50 & 0.960 \ x \ 1 & 1.050 \ x \ 1 \\ & > 70 \ 10 \ 80 & -50 & 0.940 \ x \ 1 & 1.050 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 30 \ 10 \ 40 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.050 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.980 \ x \ 1 & 1.080 \ x \ 1 \\ & > 80 \ 10 \ 90 & -50 & 0.98$	RC3	3 (6)	≤ 1.0	> 50 to 60	-50 0.980 x f _n 1.020 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				> 60 to 70	-50 0.975 x f _n 1.025 x f _n
RC4 4 (8) ≤ 1.0 >90 to 100 -50 0.960 x fn 1.040 x fn >20 to 30 -50 0.985 x fn 1.015 x fn >30 to 40 -50 0.968 x fn 1.022 x fn >40 to 50 -50 0.968 x fn 1.022 x fn >40 to 50 -50 0.968 x fn 1.032 x fn >60 to 70 -50 0.996 x fn 1.032 x fn >70 to 80 -50 0.990 x fn 1.002 x fn >70 to 80 -50 0.930 x fn 1.070 x fn >80 to 90 -50 0.930 x fn 1.000 x fn >80 to 90 -50 0.930 x fn 1.000 x fn >80 to 90 -50 0.930 x fn 1.000 x fn >30 to 40 -50 0.990 x fn 1.080 x fn >30 to 40 -50 0.990 x fn 1.000 x fn >30 to 40 -50 0.990 x fn 1.000 x fn >70 to 80 -50 0.990 x fn 1.000 x fn >70 to 80 -50 0.990 x fn 1.096 x fn <tr< td=""><td></td><td></td><td>> 70 to 80</td><td>-50 0.968 x f_n 1.032 x f_n</td></tr<>				> 70 to 80	-50 0.968 x f _n 1.032 x f _n
$ \begin{tabular}{ c c c c c } \hline $RC4$ & 4 (8) $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $$				> 80 to 90	-50 0.965 x f _n 1.035 x f _n
RC4 4 (8) \$ 1.0 \$ 30 to 40 -50 0.976 x fn 1.024 x fn > 40 to 50 -50 0.968 x fn 1.032 x fn > 50 to 60 -50 0.950 x fn 1.050 x fn > 60 to 70 -50 0.950 x fn 1.050 x fn > 70 to 80 -50 0.930 x fn 1.060 x fn > 80 to 90 -50 0.930 x fn 1.060 x fn > 90 to 100 -50 0.930 x fn 1.080 x fn > 90 to 100 -50 0.980 x fn 1.080 x fn > 90 to 100 -50 0.980 x fn 1.080 x fn > 90 to 100 -50 0.980 x fn 1.080 x fn > 90 to 100 -50 0.980 x fn 1.080 x fn > 40 to 50 -50 0.980 x fn 1.080 x fn > 40 to 50 -50 0.992 x fn 1.080 x fn > 70 to 80 -50 0.992 x fn 1.096 x fn > 80 to 90 -50 0.992 x fn 1.096 x fn > 80 to 90 -50 0.990 x fn 1.096 x fn <td></td> <td></td> <td>> 90 to 100</td> <td>-50 0.960 x f_n 1.040 x f_n</td>				> 90 to 100	-50 0.960 x f _n 1.040 x f _n
$ \begin{array}{ c c c c c } RC4 & 4 \ (8) & \leq 1.0 & & \leq 1.0 & & & > 50 \ (6)$				20 to 30	-50 0.985 x f _n 1.015 x f _n
$ \begin{array}{ c c c c c } RC4 & 4 (8) & $\leq 1.0 \\ & & & >50 \ to \ 60 & -50 & 0.955 \ x \ f_n & 1.045 \ x \ f_n \\ & & >60 \ to \ 70 & -50 & 0.930 \ x \ f_n & 1.060 \ x \ f_n \\ & & >70 \ to \ 80 & -50 & 0.930 \ x \ f_n & 1.060 \ x \ f_n \\ & & >80 \ to \ 90 & -50 & 0.930 \ x \ f_n & 1.060 \ x \ f_n \\ & & >80 \ to \ 90 & -50 & 0.930 \ x \ f_n & 1.060 \ x \ f_n \\ & & >80 \ to \ 90 & -50 & 0.930 \ x \ f_n & 1.080 \ x \ f_n \\ & & >90 \ to \ 100 & -50 & 0.930 \ x \ f_n & 1.020 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.930 \ x \ f_n & 1.020 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.930 \ x \ f_n & 1.020 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.930 \ x \ f_n & 1.020 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.930 \ x \ f_n & 1.035 \ x \ f_n \\ & & >40 \ to \ 50 & -50 & 0.930 \ x \ f_n & 1.050 \ x \ f_n \\ & & >80 \ to \ 90 & -50 & 0.932 \ x \ f_n & 1.035 \ x \ f_n \\ & & >80 \ to \ 90 & -50 & 0.932 \ x \ f_n & 1.082 \ x \ f_n \\ & & >80 \ to \ 90 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.096 \ x \ f_n \\ & & >80 \ to \ 90 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.035 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -50 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -60 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -60 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -60 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >30 \ to \ 40 & -60 & 0.932 \ x \ f_n & 1.084 \ x \ f_n \\ & & >80 \ to \ 90 & -60 & 0.930 \ x \ f_n & 1.084 \ x \ f_n \\ & & >80 \ to \ 90 & -60 & 0.930 \ x \ f_n & 1.084 \ x \ f_n \\ & & >80 \ to \ 90 & -60 & 0.930 \ x \ f_n & 1.084 \ x \ f_n \\ & & >80 \ to \ 90 & -60 & 0.930 \ x \ f_n & 1.084 \ x \ f_n \\ & & >80 \ to \ 90 $		4 (8)	≤ 1.0	> 30 to 40	-50 0.976 x f _n 1.024 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				> 40 to 50	-50 0.968 x f _n 1.032 x f _n
$ \begin{array}{ c c c c } \hline & & & & & & & & & & & & & & & & & & $				> 50 to 60	-50 0.955 x f _n 1.045 x f _n
$ \begin{array}{ c c c c c } RC5 & 5 (10) & $ \le 1.0 \\ \hline \\ RC6 & 6 (12) & $ \le 1.0 \\ \hline \\ RC6 & 6 (12) & $ \le 1.0 \\ \hline \\ RC6 & 6 (12) & $ \le 1.0 \\ \hline \\ \\ RC6 & 6 (12) & $ \le 1.0 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $				> 60 to 70	-50 0.950 x f _n 1.050 x f _n
$ \begin{array}{ c c c c c } RC5 & 5 (10) & \leq 1.0 & \\ & & & & \\ & & & & \\ & & & \\ & & &$				> 70 to 80	-50 0.940 x f _n 1.060 x f _n
$ \begin{tabular}{ c c c c c c } \hline RC5 & 5 (10) & \leq 1.0 & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & &$				> 80 to 90	-50 0.930 x f _n 1.070 x f _n
$ \begin{array}{ c c c c c c } RC5 & 5 (10) & \leq 1.0 & \\ & & > 30 \ to \ 40 & -50 & 0.965 \ x \ fn & 1.035 \ x \ fn \\ & > 40 \ to \ 50 & -50 & 0.950 \ x \ fn & 1.050 \ x \ fn \\ & > 40 \ to \ 50 & -50 & 0.950 \ x \ fn & 1.050 \ x \ fn \\ & > 60 \ to \ 70 & -50 & 0.925 \ x \ fn & 1.075 \ x \ fn \\ & > 60 \ to \ 70 & -50 & 0.912 \ x \ fn & 1.088 \ x \ fn \\ & > 80 \ to \ 90 & -50 & 0.904 \ x \ fn & 1.096 \ x \ fn \\ & > 90 \ to \ 100 & -50 & 0.980 \ x \ fn & 1.010 \ x \ fn \\ & > 90 \ to \ 100 & -50 & 0.982 \ x \ fn & 1.0108 \ x \ fn \\ & > 90 \ to \ 100 & -50 & 0.982 \ x \ fn & 1.0108 \ x \ fn \\ & > 90 \ to \ 100 & -50 & 0.982 \ x \ fn & 1.018 \ x \ fn \\ & > 30 \ to \ 40 & -60 & 0.970 \ x \ fn & 1.030 \ x \ fn \\ & > 30 \ to \ 40 \ to \ 50 & -60 & 0.955 \ x \ fn & 1.058 \ x \ fn \\ & > 60 \ to \ 70 & -60 & 0.930 \ x \ fn & 1.070 \ x \ fn \\ & > 60 \ to \ 70 & -60 & 0.930 \ x \ fn & 1.070 \ x \ fn \\ & > 70 \ to \ 80 & -60 & 0.916 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.916 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.916 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn & 1.095 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn \\ & > 80 \ to \ 90 & -60 & 0.905 \ x \ fn \\ & > 80 \ to$				> 90 to 100	-50 0.920 x f _n 1.080 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				20 to 30	-50 0.980 x f _n 1.020 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				> 30 to 40	-50 0.965 x f _n 1.035 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		5 (10)	≤ 1.0	> 40 to 50	-50 0.950 x f _n 1.050 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				> 50 to 60	-50 0.938 x f _n 1.062 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				> 60 to 70	-50 0.925 x f _n 1.075 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				> 70 to 80	-50 0.912 x f _n 1.088 x f _n
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				> 80 to 90	-50 0.904 x f _n 1.096 x f _n
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				> 90 to 100	-50 0.890 x f _n 1.110 x f _n
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	RC6			20 to 30	-60 0.982 x f _n 1.018 x f _n
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				> 30 to 40	-60 0.970 x f _n 1.030 x f _n
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		6 (12)	≤ 1.0	> 40 to 50	-60 0.955 x f _n 1.045 x f _n
$\begin{array}{c ccccc} > 60 \ to \ 70 & -60 & 0.930 \ x \ f_n & 1.070 \ x \ f_n \\ \hline > 70 \ to \ 80 & -60 & 0.916 \ x \ f_n & 1.084 \ x \ f_n \\ \hline > 80 \ to \ 90 & -60 & 0.905 \ x \ f_n & 1.095 \ x \ f_n \end{array}$				> 50 to 60	-60 0.942 x f _n 1.058 x f _n
> 80 to 90 -60 0.905 x f _n 1.095 x f _n				> 60 to 70	-60 0.930 x f _n 1.070 x f _n
				> 70 to 80	-60 0.916 x f _n 1.084 x f _n
				> 80 to 90	-60 0.905 x f _n 1.095 x f _n
				> 90 to 100	

Note: TTE's products are made in the USA. Application-specific designs are made to order. Typical delivery is 2 weeks. Expedited lead time of 3-5 days is available on many products.

For RoHS compliant, add "R" to part number. Example: RC6R-100M-22M-50-69A TTE designates a component RoHS-compliant by adding "R" (RoHS) within the part number.

These RoHS components meet the \leq 0.1% lead requirement and they are compatible with 260°C soldering processes.

NOTES:	TERMINATIONS:		PAR	PART NUMBER DERIVATION:						
Operating Temperature Range: 0°C to +70°C	50 Ω	100 MHz - 200 MHz	RC6	*(T)	**(R)	-100M		-50	-69A	
Number of Pole Pairs (Elements): 3-6 (6-12)	50 Ω or 75 Ω 1 kΩ - 50 Ω 10 kΩ - 1 kΩ	300 kHz - 100 MHz 10 kHz - 300 kHz 1 kHz - 10 kHz	1 2 3 4 5 6 7 8 1) Series, RC 2) Number of poles, 6 * 3) The "T" option specifies a filter with low THD for							
Passband VSWR: 1.5:1 Typical										
Input Power: 20 mW	STOPBAND FRE	ADC/DAC testing. When selected therein, THD								

- · Case Type: Refer to Case Selection Guide
- · Case Options: PCB, SMT, BNC or SMA
- · Normalized Response: Refer to Graphs
- Product Info: Refer to RC Series

Using part number RC6-100M-22M-50-69A, we know that the filter is a 6 pole Chebyshev band rejection filter. Scroll down to series number RC6. Moving to the right we select the 20-30% bandwidth range. Moving to the right again we find the stopband specification listed as -60dBc minimum at 0.982 x f_n and 1.018 x f_n. Thus, the -60dBc frequencies are at 98.2 MHz (0.982 x 100 MHz) and at 101.8 MHz (1.018 x 100 MHz), respectively.

- or is > -80dBc, -96dBc typical.
- **4) "R" RoHS compliant. Allow for longer lead time.
- 5) The Notch Frequency, fn
- 6) The -3dBc passband bandwidth. It may also be specified as a percentage of fn. Thus, instead of 22 MHz, use 22P.
- 7) Terminations
- 8) Case selection from the case selection guide. "T" option cases are larger than standard.



TTE Filters, LLC • 7426A Tanner Parkway, Arcade, NY 14009 USA • (t) 1-716-532-2234 • (f) 1-716-532-2702 • tte@tte.com TTE relocated from Los Angeles in mid-2015 • The LA numbers will continue to operate • (t) 1-310-478-8224 • (f) 1-310-445-2791

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