

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2	<b>Deemphasis in FM- R adios Whats the difference between 50 and 75 usec timeconstant?</b>											
3												
4	Hans M. Knoll Germany 30.12.2006											
5												
6	<b>Audio Response in Dezibel, zerro point: 30 Hz = 0 dB</b>											
7												
8	<b>Europa</b>	<b>F in Hz</b>	<b>result of:</b>	<b>R in Kohm</b>	<b>C in E-12</b>	<b>summe</b>	<b>hoch 2</b>	<b>1+X</b>	<b>wurzel</b>	<b>1/X</b>	<b>Log (10)</b>	<b>Response</b>
9	50sec		2pi*F	100Kohm	500pF							<b>dezibel down:</b>
10		<b>300</b>	1,884E+03	1,000E+05	5E-10	9,420E-02	8,874E-03	1,009E+00	1,004E+00	9,956E-01	-1,918E-03	<b>-0,04</b>
11		<b>500</b>	3,130E+03	1,000E+05	5E-10	1,565E-01	2,449E-02	1,024E+00	1,012E+00	9,880E-01	-5,254E-03	<b>-0,11</b>
12		<b>1000</b>	6,280E+03	1,000E+05	5E-10	3,140E-01	9,860E-02	1,099E+00	1,048E+00	9,541E-01	-2,042E-02	<b>-0,41</b>
13		<b>3000</b>	1,884E+04	1,000E+05	5E-10	9,420E-01	8,874E-01	1,887E+00	1,374E+00	7,279E-01	-1,379E-01	<b>-2,76</b>
14		<b>5000</b>	3,140E+04	1,000E+05	5E-10	1,570E+00	2,465E+00	3,465E+00	1,861E+00	5,372E-01	-2,698E-01	<b>-5,40</b>
15		<b>8000</b>	5,0240E+04	1,000E+05	5E-10	2,512E+00	6,310E+00	7,310E+00	2,704E+00	3,699E-01	-4,320E-01	<b>-8,64</b>
16		<b>10000</b>	6,280E+04	1,000E+05	5E-10	3,140E+00	9,860E+00	1,086E+01	3,295E+00	3,035E-01	-5,179E-01	<b>-10,36</b>
17		<b>12500</b>	7,850E+04	1,000E+05	5E-10	3,925E+00	1,541E+01	1,641E+01	4,050E+00	2,469E-01	-6,075E-01	<b>-12,15</b>
18		<b>15000</b>	9,420E+04	1,000E+05	5E-10	4,710E+00	2,218E+01	2,318E+01	4,815E+00	2,077E-01	-6,826E-01	<b>-13,65</b>
19												
20												
21												
22	<b>USA</b>	<b>F in Hz</b>	<b>result of:</b>	<b>R in Kohm</b>	<b>C in E-12</b>	<b>summe</b>	<b>hoch 2</b>	<b>1+X</b>	<b>wurzel</b>	<b>1/X</b>	<b>Log</b>	<b>Response</b>
23	75 usec		2pi*F	100Kohm	750pF							<b>dezibel down:</b>
24		<b>300</b>	1,884E+03	1,000E+05	7,5E-10	1,413E-01	1,997E-02	1,020E+00	1,010E+00	9,902E-01	-4,293E-03	<b>-0,09</b>
25		<b>500</b>	3,130E+03	1,000E+05	7,5E-10	2,348E-01	5,511E-02	1,055E+00	1,027E+00	9,735E-01	-1,165E-02	<b>-0,23</b>
26		<b>1000</b>	6,280E+03	1,000E+05	7,5E-10	4,710E-01	2,218E-01	1,222E+00	1,105E+00	9,047E-01	-4,351E-02	<b>-0,87</b>
27		<b>3000</b>	1,884E+04	1,000E+05	7,5E-10	1,413E+00	1,997E+00	2,997E+00	1,731E+00	5,777E-01	-2,383E-01	<b>-4,77</b>
28		<b>5000</b>	3,140E+04	1,000E+05	7,5E-10	2,355E+00	5,546E+00	6,546E+00	2,559E+00	3,909E-01	-4,080E-01	<b>-8,16</b>
29		<b>8000</b>	5,0240E+04	1,000E+05	7,5E-10	3,768E+00	1,420E+01	1,520E+01	3,898E+00	2,565E-01	-5,909E-01	<b>-11,82</b>
30		<b>10000</b>	6,280E+04	1,000E+05	7,5E-10	4,710E+00	2,218E+01	2,318E+01	4,815E+00	2,077E-01	-6,826E-01	<b>-13,65</b>
31		<b>12500</b>	7,850E+04	1,000E+05	7,5E-10	5,888E+00	3,466E+01	3,566E+01	5,972E+00	1,675E-01	-7,761E-01	<b>-15,52</b>
32		<b>15000</b>	9,420E+04	1,000E+05	7,5E-10	7,065E+00	4,991E+01	5,091E+01	7,135E+00	1,401E-01	-8,534E-01	<b>-17,07</b>
33												
34												
35												