

**Bill of Materials  
for  
LM4931-ITL Demo Board**

11/5/2003

Assembly Notes:

- No special considerations.

Symbol	Value	Tolerance	Type/Description	Comment/Supplier	Part #
R <sub>1</sub> , R <sub>4</sub>	2kΩ	2%	1/10 Watt, Size code: 0805		
R <sub>2</sub> , R <sub>3</sub> , R <sub>6</sub> , R <sub>8</sub> , R <sub>99</sub>	100kΩ	2%	1/10 Watt, Size code: 0805		
R <sub>5</sub> , R <sub>7</sub>	5kΩ	2%	1/10 Watt, Size code: 0805		
R <sub>9</sub> , R <sub>10</sub> , R <sub>12</sub> , R <sub>13</sub>	1kΩ	2%	1/10 Watt, Size code: 0805		
R <sub>11</sub>	300Ω	2%	1/10 Watt, Size code: 0805		
C <sub>1</sub> , C <sub>2</sub> , C <sub>3</sub> , C <sub>5</sub> , C <sub>7</sub> , C <sub>8</sub> , C <sub>9</sub> , C <sub>18</sub> , C <sub>20</sub>	1μF	10%	16V Tantalum, Size code: 0805		
C <sub>4</sub> , C <sub>6</sub> , C <sub>17</sub> , C <sub>19</sub>	0.1μF	10%	16V Ceramic, Size code: 0805		
C <sub>10</sub> , C <sub>11</sub>	47μF	10%	16V Electrolytic, Size code: 1210		
C <sub>12</sub> , C <sub>15</sub> , C <sub>16</sub>	100pF	10%	16V Ceramic, Size code: 0805		
C <sub>13</sub> , C <sub>14</sub>	0.022μF	10%	16V Ceramic, Size code: 0805		
L <sub>1</sub> , L <sub>2</sub>	1mH	20%	1mH Surface Mount Inductor	Digi-Key	DN3296CT-ND
JP <sub>1</sub> , JP <sub>15</sub>			3X1 0.100" header, Vertical Mount		
JP <sub>3</sub> , JP <sub>5</sub> , JP <sub>6</sub> , JP <sub>7</sub> , JP <sub>8</sub> , JP <sub>9</sub> , JP <sub>10</sub> , JP <sub>14</sub>			2X1 0.100" header, Vertical Mount		
JP <sub>11</sub>			3X1 0.100" header, Dual row, Vertical Mount	I <sup>2</sup> C/SPI Interface connector	
JP <sub>12</sub> , JP <sub>13</sub>			5X1 0.100" header, Dual row, Vertical Mount	PCM and I <sup>2</sup> S Interface connectors	

S <sub>1</sub> , S <sub>3</sub> , S <sub>4</sub> , S <sub>5</sub> , S <sub>6</sub> , S <sub>7</sub> , S <sub>8</sub> , S <sub>9</sub> , S <sub>10</sub> , S <sub>11</sub> , S <sub>12</sub> , S <sub>13</sub> , S <sub>14</sub> , S <sub>15</sub>			2X1 0.100" header, Vertical Mount		
P <sub>1</sub>			3.5mm Stereo Headphone Jack	Shogyo	SJS-0354-5P
Y <sub>1</sub>			12MHz Crystal Oscillator (optional)	Digi-Key	SE1709-ND