

# FILTERED CONNECTORS



Pulse now offers a broad selection of Filtered Connectors. Each platform is designed to house a range of magnetic configurations (turns ratios, up to 12 cores per port) and other internal components (Bob Smith Termination with four 75  $\Omega$  resistors and HV Cap), chip-side pin outs, shield options, USB ports and LED options.

- Meets or exceeds IEEE 802.3 and ANSI X3.263
- 1500 Vrms isolation
- Self-contained termination saves PCB space
- Patented InterLock Base construction for high reliability

For more options and up-to-date information, contact the Pulse Applications Engineering group nearest you in Asia, Europe, or the Americas. For contact information, see the back cover of this catalog or visit the Pulse web site at:

<http://www.pulseeng.com>

## INTEGRATED MAGNETICS

Platform	Pulse Part No.	Configuration <sup>2</sup>		Turns Ratio <sup>4</sup>		Other Components <sup>5</sup>	Shield EMI Tabs <sup>6</sup>	Auto MDIX	LEDs <sup>7</sup>	Package <sup>8</sup>	Data Sheet
		TX	RX	TX	RX					L/W/H (in.)	
Gigabit Through Hole, Multiport, (JC = 2XN, no LEDs, 10-pin)											
2x4	JC065H3A	T, C, S	T, C	1CT:1CT	1CT:1CT	BST	16	Yes	No LEDs	2.330 / 1.120 / .991	J405
2x6	JC065H3B	T, C, S	T, C	1CT:1CT	1CT:1CT	BST	18	Yes	No LEDs	3.430 / 1.120 / .991	J405
2x8	JC065H3C	T, C, S	T, C	1CT:1CT	1CT:1CT	BST	24	Yes	No LEDs	4.530 / 1.120 / .991	J405
10/100Base-TX Through Hole Combo (JU = Dual USB + RJ-45, Tab UP, with LEDS, 8-pin) <sup>1</sup>											
Single	JU054P01R	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	4	No	Green/R & Yellow/R	1.010 / .665 / 1.140	J408
10/100Base-TX Through Hole Combo (J6 = Dual USB + RJ-45, Tab Up, with LEDS, 6-pin) <sup>1</sup>											
Single	J6026M51U	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	4	No	Green/Orange & Yellow	1.010 / .665 / 1.140	J408
10/100Base-TX Surface Mount, Single Port (JV = 1X1, Tab DOWN, no LEDs, 6-pin) <sup>1</sup>											
Single	JV006I21T	T, C	T, C	1CT:1	1CT:1	None	0	Yes	No LEDs	.950 / .600 / .507	J409
Single	JV011I21T	T, C	T, C	1CT:1CT	1CT:1CT	BST	0	Yes	No LEDs	.950 / .600 / .507	J409
Single	JV026I21T	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	0	No	No LEDs	.950 / .600 / .507	J409
10/100Base-TX Surface Mount, Single Port (J3 = 1X1, Tab UP, with LEDs, 8-pin) <sup>1</sup>											
Single	J3011G21D	T, C	T, C	1CT:1CT	1CT:1CT	BST	6	Yes	Green & Yellow	1.000 / .640 / .532	J409
Single	J3026G01D	T, C, S	C, T	1CT:1	1CT:1CT	BST	None	No	Green & Yellow	1.000 / .640 / .532	J409
Single	J3026G21D	T, C, S	C, T	1CT:1	1CT:1CT	BST	6	No	Green & Yellow	1.000 / .640 / .532	J409
Single	J3006G21D	T, C	T, C	1CT:1	1CT:1	None	6	Yes	Green & Yellow	1.000 / .640 / .532	J409
10/100Base-TX Through Hole, Multiport (J8 = 1XN, Tab DOWN, with LEDs, 8-pin) <sup>1</sup>											
1x2	J8064D628A	T, C	T, C	1CT:1CT	1CT:1CT	BST	5	Yes	Green & Yellow	1.230 / .841 / .536	J404
1x4	J8064D648A	T, C	T, C	1CT:1CT	1CT:1CT	BST	7	Yes	Green & Yellow	2.330 / .841 / .536	J404
1x6	J8064D668A	T, C	T, C	1CT:1CT	1CT:1CT	BST	9	Yes	Green & Yellow	3.430 / .841 / .536	J404
1x8	J8064D688A	T, C	T, C	1CT:1CT	1CT:1CT	BST	11	Yes	Green & Yellow	4.530 / .841 / .536	J404
10/100Base-TX Through Hole, Multiport (J8 = 1XN, Tab DOWN, no LEDs, 8-pin) <sup>1</sup>											
1x2	J8064E62	T, C	T, C	1CT:1CT	1CT:1CT	BST	5	Yes	No LEDs	1.230 / .841 / .536	J404
1x4	J8064E64	T, C	T, C	1CT:1CT	1CT:1CT	BST	7	Yes	No LEDs	2.330 / .841 / .536	J404
1x6	J8064E66	T, C	T, C	1CT:1CT	1CT:1CT	BST	9	Yes	No LEDs	3.430 / .841 / .536	J404
1x8	J8064E68	T, C	T, C	1CT:1CT	1CT:1CT	BST	11	Yes	No LEDs	4.530 / .841 / .536	J404
10/100Base-TX Through Hole, Multiport (J2 = 2XN, no LEDs, 8-pin)											
2x4	J2039H3A	T, C, S	T, C	1CT:1CT	1CT:1CT	BST	16	No	No LEDs	2.330 / 1.120 / .991	J401
2x6	J2039H3B	T, C, S	T, C	1CT:1CT	1CT:1CT	BST	18	No	No LEDs	3.430 / 1.120 / .991	J401
2x8	J2039H3C	T, C, S	T, C	1CT:1CT	1CT:1CT	BST	24	No	No LEDs	4.530 / 1.120 / .991	J401
2x4	J2042H3A	T, C	T, C	1CT:1CT	1CT:1CT	BST	16	Yes	No LEDs	2.330 / 1.120 / .991	J401
2x6	J2042H3B	T, C	T, C	1CT:1CT	1CT:1CT	BST	18	Yes	No LEDs	3.430 / 1.120 / .991	J401
2x8	J2042H3C	T, C	T, C	1CT:1CT	1CT:1CT	BST	24	Yes	No LEDs	4.530 / 1.120 / .991	J401
2x4	J2045H3A	T, C	T, C	1CT:1CT	1CT:1CT	BST	16	Yes	No LEDs	2.330 / 1.120 / .991	J401
2x6	J2045H3B	T, C	T, C	1CT:1CT	1CT:1CT	BST	18	Yes	No LEDs	3.430 / 1.120 / .991	J401
2x8	J2045H3C	T, C	T, C	1CT:1CT	1CT:1CT	BST	24	Yes	No LEDs	4.530 / 1.120 / .991	J401

1. **Tab Down** = thumb lock facing down to PCB, **Tab Up** = thumb lock facing away from PCB

2. **Magnetics** = Chip (PHY) to Cable (Media) side: **R** = Resistor, **T** = Transformer, **C** = Common Mode Choke, **S** = Shunt Inductor

3. **4-line chokes** (see next page)

4. **Turns Ratio** = Chip (PHY) to Cable (Media) side

5. **BST** = Bob Smith Termination with HV Cap within the connector; no extra PCB real estate required

6. **EMI Tabs** = On the outside face of the shield for connecting to a front panel

7. **LEDs** require external 5 V source and 250  $\Omega$  external resistors except J0026D01F (R = 250  $\Omega$  internal).

8. **Package Mounting**: THT = Through Hole, SMT = Surface Mount

9. **NOTE**: For example, 1x4 = 1 row/4 columns or a 2x4 = 2 rows/4 columns

(continued on next page)

# FILTERED CONNECTORS



## INTEGRATED MAGNETICS (continued)

Platform	Pulse Part No.	Configuration <sup>2</sup>		Turns Ratio <sup>4</sup>		Other Components <sup>5</sup>	Shield EMI Tabs <sup>6</sup>	Auto MDIX	LEDs <sup>7</sup>	Package <sup>8</sup> L/W/H (in.)	Data Sheet
		TX	RX	TX	RX						
10/100Base-TX Through Hole, Single Port (J1 = 1X1, Tab UP, with LEDs, 8-pin) <sup>1</sup>											
Single	J1006F01P	T, C	T, C	1CT:1	1CT:1	None	6	Yes	Green & Yellow	1.000 / .640 / .535	J402
Single	J1011F21P	T, C	T, C	1CT:1CT	1CT:1CT	BST	6	Yes	Green & Yellow	1.000 / .640 / .535	J402
Single	J1012F21K	T, C	C, T	1CT:1CT	1CT:1CT	BST	6	No	Green & Green	1.000 / .640 / .535	J402
Single	J1026F21C	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	Yellow & Green	1.000 / .640 / .535	J402
Single	J1026F21P	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	Green & Yellow	1.000 / .640 / .535	J402
Single	J1035F01P	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	Green & Yellow	1.000 / .640 / .535	J402
10/100Base-TX Through Hole, Single Port, (JP = 1X1, Tab UP, with LEDs, 6-pin) <sup>1</sup>											
Single	JP006821U	T, C	T, C	1CT:1	1CT:1	None	6	Yes	Green/Orange & Yellow	.990 / .658 / .531	J402
Single	JP011821U	T, C	T, C	1CT:1CT	1CT:1CT	BST	6	Yes	Green/Orange & Yellow	.990 / .658 / .531	J402
Single	JP026821U	T, C, S	C, T	1CT:1	1CT:1CT	BST	6	No	Green/Orange & Yellow	.990 / .658 / .531	J402
10/100Base-TX Through Hole, Single Port (J0 = 1X1, Tab DOWN, with LEDs, 8-pin) <sup>1</sup>											
Single	J0006D21	T, C	T, C	1CT:1	1CT:1	None	6	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0006D21B	T, C	T, C	1CT:1	1CT:1	None	6	Yes	Green & Yellow	.850 / .630 / .535	J403
Single	J0010D11	C <sup>3</sup>	C <sup>3</sup>	NA	NA	None	4	No	No LEDs	.850 / .630 / .535	J403
Single	J0011D11	T, C	T, C	1CT:1CT	1CT:1CT	BST	4	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0011D21	T, C	T, C	1CT:1CT	1CT:1CT	BST	6	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0011D21B	T, C	T, C	1CT:1CT	1CT:1CT	BST	6	Yes	Green & Yellow	.850 / .630 / .535	J403
Single	J0011D41J	T, C	T, C	1CT:1CT	1CT:1CT	BST	2	Yes	No LEDs	.850 / .630 / .535	J403
Single	J0026D01B	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	None	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0026D01F	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	None	No	Green/R & Yellow/R	.850 / .630 / .535	J403
Single	J0026D11	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	4	No	No LEDs	.850 / .630 / .535	J403
Single	J0026D21	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	No LEDs	.850 / .630 / .535	J403
Single	J0026D21B	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0026D21E	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	Green & Green	.850 / .630 / .535	J403
Single	J0026D21G	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	Yellow/Green & Yellow	.850 / .630 / .535	J403
Single	J0033D21	T, C	C, T	1.25CT:1CT	1CT:1CT	BST	6	No	No LEDs	.850 / .630 / .535	J403
Single	J0035D21B	T, C, S	C, T	1CT:1CT	1CT:1CT	BST	6	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0037D01B	S	S	NA	NA	None	6	No	Green & Yellow	.850 / .630 / .535	J403
Single	J0037D21	S	S	NA	NA	None	6	No	No LEDs	.850 / .630 / .535	J403
Single	J0048D21M	T, C	T, C	1CT:1	1CT:1	BST	6	Yes	Green & Green	.850 / .630 / .535	J403
Single	J0073D01B	T,C	C,T	1CT:2.5	1CT:1	BST	None	No	Green/Yellow	.850 / .630/ .535	J403

- Tab Down** = thumb lock facing down to PCB, **Tab Up** = thumb lock facing away from PCB
- Magnetics** = Chip (PHY) to Cable (Media) side: **R** = Resistor, **T** = Transformer, **C** = Common Mode Choke, **S** = Shunt Inductor
- 4-line** chokes
- Turns Ratio** = Chip (PHY) to Cable (Media) side
- BST** = Bob Smith Termination with HV Cap within the connector; no extra PCB real estate required

- EMI Tabs** = On the outside face of the shield for connecting to a front panel
- LEDs** require external 5 V source and 250  $\Omega$  external resistors except J0026D01F (R = 250  $\Omega$  internal).
- Package Mounting**: THT = Through Hole, SMT = Surface Mount
- NOTE**: For example, 1x4 = 1 row/4 columns or a 2x4 = 2 rows/4 columns