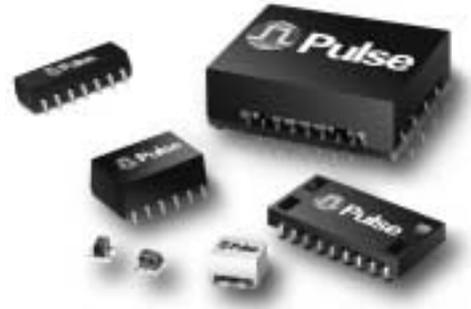


BROADBAND: RF & CABLE



Pulse develops all the necessary magnetic components for use in hybrid fiber coax (HFC) equipment, cable modems, set-top boxes and other RF applications. Components include transformers/baluns, low-pass filters, diplex filters, directional couplers and splitter/combiners. These surface mount and through hole components have minimal insertion loss and excellent return loss to ease the development and manufacture of today's RF network equipment.



RF, HFC & CABLE MODEM APPLICATIONS

Low Pass Filters

Part Number	In/Out Impedance	Passband (MHz)	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Data Sheet
B5004	75 Ω	5-42	1.0	18.0	B907
B5005	75 Ω	5-65	1.0	17.5	B907
C5001	150 Ω	1-50	1.2	15.0	C209
C5003	150 Ω	1-80	1.2	15.0	C209
C5005	75 Ω	1-59.5	1.0	15.0	C209
CX5013	75 Ω	1-65	1.5	15.0	C209
C5002	50 Ω	1-49	1.0	16.0	C208

Diplex Filters

Part Number	Frequency ¹ (MHz)	Insertion Loss (dB)	Return Loss (dB)	Data Sheet
SF9023	5-42/52-750	<1.5	18 or better	C202
C6001	5-42/52-870	<1.0	20 or better	C204
CX6002	5-42/54-864	<1.5B	14 / 9 ¹	C205
CX6007	5-42/88-864	<1.0	14 or better	C211
CX6008	5-65/85-864	1.0 TYP	14 / 9 ¹	C216

1. Low Pass Port/High Pass Port

Directional Couplers

Part Number	Frequency (MHz)	Z (Ω)	Coupling Nom. (dB ±0.5)	Mainline Loss (dB TYP)	Data Sheet
A5807T	5 - 900	75	10.0	1.1	A102
A5808T	5 - 900	75	7.5	1.6	A102
A5809T	5 - 900	75	12.0	0.9	A102
A5816T	5 - 900	75	16.0	0.8	A102
A5908T	5 - 900	75	7.5	1.6	A102
A5910T	5 - 900	75	10.0	1.1	A102
A5912T	5 - 900	75	12.0	0.9	A102
A5916T	5 - 900	75	16.0	0.8	A102
C3027	5 - 900	75	16.0	0.6	C207

FIBRE CHANNEL (SAN)

Dual Serial Data Interface Transformers

Part Number	Turns Ratio	Package Style ¹	Package L/W/H (in.) ²	Data Sheet
A6801	1CT:1CT	16-pin SOIC	.500 / .295 / .220	A100
A6802	1:1	16-pin SOIC	.500 / .295 / .220	A100
PE-65507	1:1	16-pin SOIC	.500 / .270 / .220	A101
PE-65508	1:1	16-pin SOIC	.500 / .270 / .220	A101

1. SOIC = 50 mil pitch lead spacing

2. Length and width are MAX package dimensions. Height dimension includes the wash area.

RF Splitter/Combiners: 2-Way 0°

Part Number	Frequency Range	Isolation (dB TYP)	VSWR (TYP)	Insertion Loss (dB TYP)	Data Sheet
CX4004	5-65 MHz	40	1.06:1	.22	C212
CX4002	5-1000 MHz	30	1.1:1	0.5	C201

Wideband RF Transformers

Part Number	Impedance Ratio	Bandwidth (MHz TYP)		Package Style	Data Sheet
		3 dB	2 dB		
CX2024	1:1	—	Up to 1500	10-1200	Leadless (0.15 sq)
CX2078	1:1	—	Up to 1500	5-500	6-pin SMT
CX2038	1:1; (75 Ω)	—	Up to 1500	4.5-1000	Leadless (0.15 sq)
CX2039	1:1; (50 Ω)	—	Up to 1500	4.5-1000	Leadless (0.15 sq)
CX2040	1:1	1.5-500	2.5-400	5-350	Leadless (0.15 sq)
CX2050	1:1	0.15-400	—	—	6-pin SMT
CX2060	1:1	0.15-400	—	—	6-pin THT
CX2052	1:1CT	0.08-200	—	—	6-pin SMT
CX2062	1:1CT	0.08-200	—	—	6-pin THT
C2020	1CT:1CT	0.150-210	.200-150	.350-90	6-pin SMT
CX2043	1:1.5	—	—	1-1000	Leadless (0.15 sq)
CX2044	1:1.5	—	1.0-500	5-100	Leadless (0.15 sq)
C2022	1:4CT	0.100-500	.150-390	.300-220	6-pin SMT
CX2032	1:4CT	—	—	5-165	Low Profile
CX2047	1:4CT	—	.50-300	1.5-100	Leadless (0.15 sq)
CX2054	1:4CT	0.20-350	—	—	6-pin SMT
CX2064	1:4CT	0.20-350	—	—	6-pin THT
CX2065	1:4CT	0.02-250	—	—	6-pin THT
CX2059	1:9	0.15-200	—	—	6-pin SMT

IEEE 1394

Common Mode Choke

Part Number	No. of Lines	Inductance OCL (μH MIN)	Package L/W/H (in.) ¹	Data Sheet
A1801	2	3	.290 / .240 / .150	A104

1. Length and width are MAX package dimensions. Height dimension includes the wash area.

THT - Through Hole Package SMT - Surface Mount Package

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

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[C5003T](#) [C5002T](#) [CX6008T](#) [CX5013](#) [CX4004](#) [CX4004LT](#)