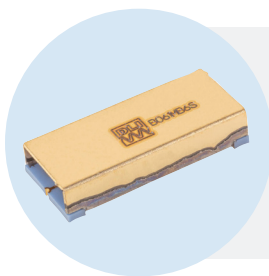


High Reliability Components for Satellite Communications

Taking High Reliability Even Higher

Product Overview

Innovation in satellite communications continues to drive a need for low-SWaP devices for building both ground- and flight-capable hardware. As higher-frequency technology evolves to incorporate surface mount assembly technology and the latest packaging technology for active devices, there's also a need for complementary filter and other passive device products. Knowles' DLI Brand of RF/Microwave Products meet these demands, with temperature-stable dielectric materials and highly reliable designs. Talk to us today to explore a range of standard products and turnkey custom solutions.



Product Type

- Bandpass Filters
- Power Dividers/Combiners
- Directional Couplers

Key Features

- Small size, lightweight and frequency stable across -55°C to 125°C
- Integrated shielding
- Space flight technology
- Highly repeatable electrical performance

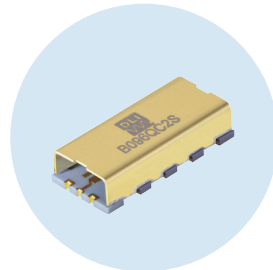
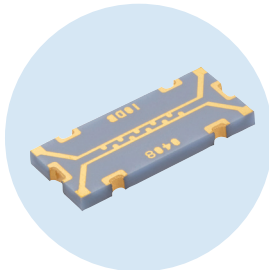
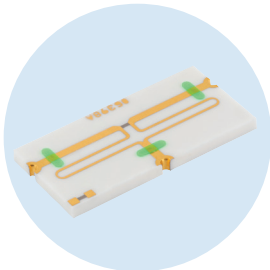
L, S, C, & X Band

Part Number	Description	Frequency, GHz	Size L x W x H, mm (in)
B021MC8S	Bandpass Filter	2.0-2.2	15.24 x 7.62 x 3.25 (0.600 x 0.300 x 0.128)
B038NC4S	Bandpass Filter	3.4-4.2	13.97 x 5.59 x 2.74 (0.550 x 0.220 x 0.108)
B040RG9S	Bandpass Filter	2.0-6.0	15.75 x 7.11 x 2.36 (0.620 x 0.280 x 0.093)
B047MC5S	Bandpass Filter	4.4-5.0	12.7 x 6.35 x 2.41 (0.500 x 0.250 x 0.095)
B052NC5S	Bandpass Filter	4.8-5.6	8.89 x 5.08 x 0.38 (0.350 x 0.200 x 0.015)
B055NC5S	Bandpass Filter	5-6	8.89 x 5.08 x 2.29 (0.350 x 0.200 x 0.090)
B056RC4S	Bandpass Filter	4.0-8.0	11.43 x 5.84 x 2.62 (0.450 x 0.230 x 0.103)
B060NC5S	Bandpass Filter	5.5-6.5	12.7 x 5.842 x 2.62 (0.500 x 0.230 x 0.103)
B061MB6S	Bandpass Filter Downlink	5.85-6.425	11.43 x 5.08 x 2.48 (0.450 x 0.200 x 0.098)
B065NC5S	Bandpass Filter	6-7	12.7 x 6.35 x 2.49 (0.500 x 0.250 x 0.098)
B070MB6S	Bandpass Filter	6.7-7.25	12.7 x 5.08 x 3.12 (0.500 x 0.200 x 0.123)
B070NC5S	Bandpass Filter	6.45 - 7.55	12.70 x 5.08 x 2.41 (0.500 x 0.200 x 0.095)
B076MB6S	Bandpass Filter	7.3-7.9	12.7 x 5.08 x 2.41 (0.500 x 0.200 x 0.108)
B080JB4S	Bandpass Filter	7.9-8.1	6.35 x 4.0 x 2.5 (0.250 x 0.160 x 0.098)
B080MB5S	Bandpass Filter	7.5-8.5	12.7 x 4.57 x 2.62 (0.500 x 0.180 x 0.103)
B081RC0S	Bandpass Filter	6-11	4.83 x 2.54 x 2.29 (0.190 x 0.100 x 0.090)
B083LB6S	Bandpass Filter	8-8.5	11.43 x 5.0 x 2.6 (0.450 x 0.200 x 0.103)

L, S, C, & X Band *continued*



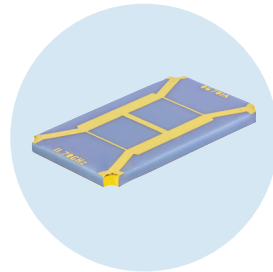
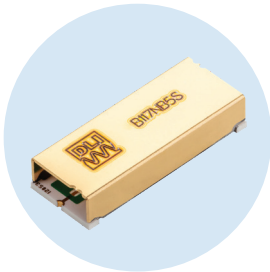
Part Number	Description	Frequency, GHz	Size L x W x H, mm (in)
B084MC6S	Bandpass Filter	8.0-8.84	15.24 x 7.62 x 2.37 (0.600 x 0.300 x 0.093)
B089NC4S	Bandpass Filter	8.1-10.1	10.6 x 3.81 x 2.61 (0.400 x 0.150 x 0.103)
B094LA2S	Bandpass Filter	9.25-9.6	11.43 x 5.0 x 2.5 (0.450 x 0.200 x 0.098)
B095MB1S	Bandpass Filter	8.9-10	10.16 x 3.80 x 2.61 (0.400 x 0.150 x 0.103)
B096QC2S	Bandpass Filter	8.0-12.0	10.16 x 4.57 x 2.62 (0.400 x 0.180 x 0.103)
B097MB0S	Bandpass Filter	9.3-10.1	10.16 x 3.80 x 2.62 (0.400 x 0.150 x 0.103)
B100MC5S	Bandpass Filter	9.5-10.5	10.16 x 3.81 x 2.5 (0.400 x 0.150 x 0.098)
B102MC1S	Bandpass Filter	10-10.5	11.43 x 5.08 x 2.61 (0.450 x 0.200 x 0.103)
H060XHXS	Highpass Filter	6.5-20	11.43 x 5.08 x 2.74 (0.450 x 0.200 x 0.108)
H080XHXS	Highpass Filter	8.5-22.0	11.43 x 5.08 x 2.74 (0.450 x 0.200 x 0.108)
L050XF9S	Lowpass Filter	DC-4.8	5.59 x 4.57 x 3.00 (0.220 x 0.180 x 0.118)
L065XG9S	Lowpass Filter	DC-6	5.59 x 4.57 x 3.00 (0.220 x 0.180 x 0.118)
L095XG9S	Lowpass Filter	DC-9	5.59 x 3.56 x 3.00 (0.220 x 0.140 x 0.118)
FPC06073	10dB Directional Coupler	4.0-8.0	4.318 x 2.032 x 0.381 (0.170 x 0.080 x 0.015)
FPC06074	10dB Directional Coupler	8.0-12.0	3.048 x 2.032 x 0.381 (0.120 x 0.080 x 0.015)
FPC06076	20dB Directional Coupler	4.0-8.0	4.318 x 2.032 x 0.381 (0.170 x 0.080 x 0.015)
FPC06077	25dB Directional Coupler	8-12	3.048 x 2.032 x 0.381 (0.120 x 0.080 x 0.015)
FPC06149	10dB Directional Coupler	4.0-8.0	4.572 x 2.032 x 0.381 (0.180 x 0.080 x 0.015)
FPC06150	10dB Directional Coupler	8.0-12.0	3.30 x 2.29 x 0.38 (0.130 x 0.090 x 0.015)
FPC06152	20dB Directional Coupler	4.0-8.0	4.57 x 2.03 x 0.38 (0.170 x 0.080 x 0.015)
FPC06153	20dB Directional Coupler	8.0-12.0	3.30 x 2.29 x 0.38 (0.130 x 0.090 x 0.015)
FPC06302	20dB Directional Coupler	8.0-12.0	3.048 x 2.032 x 0.381 (0.120 x 0.080 x 0.015)
FPC06630	3dB Hybrid Coupler	9.0-11.0	7.264 x 4.572 x 0.381 (0.286 x 0.180 x 0.015)
FPC06700	3dB Hybrid Coupler	5.9-6.5	10.80 x 6.35 x 0.508 (0.425 x 0.250 x 0.020)
PDW06038	2-way Wilkinson Power Divider	2-10	6.35 x 10.16 x 0.508 (0.25 x 0.4 x 0.02)
PDW06398	2-way Wilkinson Power Divider	5.0-7.0	3.048 x 6.096 x 0.381 (0.12 x 0.240 x 0.015)
PDW06399	2-way Wilkinson Power Divider	8.0-12.0	3.81 x 2.54 x 0.381 (0.150 x 0.100 x 0.015)



Ku Band



Part Number	Description	Frequency, GHz	Size L x W x H, mm (in)
ADP12055	Tx/Rx Diplexer	10.7-12.75, 13.75-14.5	12.7 x 9.39 x 2.36 (0.500 x 0.370 x 0.093)
B140MB4S	Bandpass Filter	13.75-14.5	12.7 x 4.57 x 2.62 (0.500 x 0.180 x 0.103)
B117NB5S	Bandpass Filter	10.7-12.75	11.43 x 4.45 x 2.49 (0.450 x 0.175 x 0.098)
B115NB4S	Bandpass Filter	10.5-12.75	14.61 x 5.08 x 2.36 (0.575 x 0.200 x 0.093)
B119LB1S	Bandpass Filter	11.6-12.4	11.43 x 5.08 x 2.49 (0.450 x 0.200 x 0.098)
B119MB1S	Bandpass Filter	10.8-13.0	11.43 x 5.0 x 2.49 (0.450 x 0.200 x 0.098)
B120MB1S	Bandpass Filter	11.2-12.7	13.34 x 5.72 x 2.62 (0.525 x 0.225 x 0.103)
B127MB2S	Bandpass Filter	11.8-13.4	10.16 x 5.0 x 2.51 (0.400 x 0.200 x 0.098)
B142LA2S	Bandpass Filter	13.9-14.7	14.61 x 5.08 x 2.36 (0.575 x 0.200 x 0.093)
B144MB1S	Bandpass Filter	13.4-15.3	10.16 x 5.0 x 2.5 (0.400 x 0.200 x 0.098)
B148QF0S	Bandpass Filter	11.3-18.7	13.97 x 3.81 x 2.49 (0.550 x 0.150 x 0.098)
B149MC1S	Bandpass Filter	13.4-16.5	8.9 x 5.0 x 2.49 (0.350 x 0.200 x 0.098)
B150OG0S	Bandpass Filter	12.4-16.5	9.53 x 3.56 x 2.24 (0.375 x 0.140 x 0.088)
B165LA1S	Bandpass Filter	15.4-17.3	10.16 x 5.0 x 2.5 (0.400 x 0.200 x 0.098)
H120XHXS	Highpass Filter	12-30	11.43 x 4.45 x 2.49 (0.450 x 0.175 x 0.098)
L117XH4S	Lowpass Filter	DC-12	5.59 x 3.56 x 3.00 (0.220 x 0.140 x 0.118)
L128XH4S	Lowpass Filter	DC-13	5.59 x 3.56 x 3.00 (0.220 x 0.140 x 0.118)
L157XG3S	Lowpass Filter	DC-17	5.59 x 3.56 x 3.00 (0.220 x 0.140 x 0.118)
PDW06400	2-way Wilkinson Power Divider	10.0-14.0	3.302 x 3.302 x 0.381 (0.130 x 0.130 x 0.015)
PDW06401	2-way Wilkinson Power Divider	14.0-19.0	3.048 x 3.048 x 0.38 (0.120 x 0.120 x 0.015)
FPC06075	10dB Directional Coupler	12.0-18.0	2.54 x 2.032 x 0.381 (0.100 x 0.080 x 0.015)
FPC06151	10dB Directional Coupler	12.0-18.0	2.54 x 2.032 x 0.381 (0.100 x 0.080 x 0.015)
FPC06078	20dB Directional Coupler	12.0-18.0	2.54 x 2.032 x 0.381 (0.100 x 0.080 x 0.015)
FPC06164	20dB Directional Coupler	12.0-18.0	2.54 x 2.032 x 0.381 (0.100 x 0.080 x 0.015)
FPC06701	3dB Hybrid Coupler	10.7-12.75	6.48 x 3.94 x 0.381 (0.255 x 0.155 x 0.015)





K/Ka, Q & V Band

Part Number	Description	Frequency, GHz	Size L x W x H, mm (in)
ADP12054	KuKa Rx Diplexer	10.7-12.75, 17.3-21.2	11.43 x 7.87 x 2.36 (0.450 x 0.310 x 0.093)
B192NB2S	Bandpass Filter	17.2-21.2	11.43 x 3.55 x 2.10 (0.450 x 0.140 x 0.083)
B207LA0S	Bandpass Filter	20.2-21.2	11.43 x 4.318 x 2.36 (0.450 x 0.170 x 0.093)
B210LA0S	Bandpass Filter	20.5-21.5	11.43 x 3.98 x 2.36 (0.450 x 0.175 x 0.093)
B220LA0S	Bandpass Filter	21.5-22.5	11.43 x 3.556 x 2.235 (0.450 x 0.140 x 0.088)
B230LA0S	Bandpass Filter	22.5-23.5	11.43 x 3.556 x 2.235 (0.450 x 0.140 x 0.088)
B259MC1S	Bandpass Filter	24.25-27.5	5.50 x 2.29 x 1.78 (0.2165 x 0.09 x 0.07)
B289KA0S	Bandpass Filter	28.6-29.1	13.97 x 3.56 x 2.24 (0.550 x 0.140 x 0.088)
B291MB0S	Bandpass Filter	27.5-31	11.43 x 3.556 x 2.235 (0.450 x 0.140 x 0.088)
B305LA0S	Bandpass Filter	30-31	13.97 x 3.556 x 1.98 (0.550 x 0.140 x 0.078)
B385MD0S	Bandpass Filter	37-40	6.985 X 2.032 X 1.905 (0.275 X 0.080 X 0.075)
B424MEZS	Bandpass Filter	39.7-45.3	6.00 x 2.03 x 1.651 (0.236 x 0.080 x 0.065)
H182XHXS	Highpass Filter	18.5-30	11.43 x 4.45 x 2.49 (0.450 x 0.175 x 0.098)
L204XF4S	Lowpass Filter	DC-20.2	5.59 x 3.56 x 2.36 (0.220 x 0.140 x 0.093)
L254XF3S	Lowpass Filter	DC-25	5.59 x 3.56 x 2.36 (0.220 x 0.140 x 0.093)
L288XC3S	Lowpass Filter	DC-27	5.59 x 3.56 x 2.5 (0.220 x 0.140 x 0.098)
DDL10519	RF Crossover	DC-40	3.81 x 2.54 x 0.508 (0.15 x 0.10 x 0.02)
FPC06881	20dB Resistive Coupler	DC-40	1.52 x 2.24 x 0.254 (0.060 x 0.088 x 0.010)
FPC07181	20dB Directional Coupler	20.0-40.0	1.651 x 1.27 x 0.254 (0.065 x 0.050 x 0.010)
FPC07182	10dB Directional Coupler	20.0-40.0	1.651 x 1.27 x 0.254 (0.065 x 0.050 x 0.010)
FPC07183	3dB Hybrid Coupler	24-33	4.572 x 2.794 x 0.254 (0.180 x 0.110 x 0.010)
FPC07803	20dB Resistive Coupler	DC-40	1.52 x 2.24 x 0.254 (0.060 x 0.088 x 0.010)
FPC08035	20dB Directional Coupler w/ Termination	20-40	1.651 x 1.27 x 0.254 (0.065 x 0.050 x 0.010)
PDW06984	2-way Wilkinson Power Divider	24.0-32.0	2.159 x 2.413 x 0.254 (0.085 x 0.095 x 0.010)
PDW07069	4-way Wilkinson Power Divider	24.0-32.0	3.556 x 4.318 x 0.254 (0.140 x 0.170 x 0.010)
PDW07630	2-way Wilkinson Power Divider	24.0-32.0	1.778 x 1.778 x 0.254 (0.070 x 0.070 x 0.010)
PDW07691	2-way Wilkinson Power Divider	18-22	2.54 x 2.54 x 0.381 (0.10 x 0.10 x 0.015)
PDW09692	2-way Wilkinson Power Divider	8-50	2.286 x 5.588 x 0.254 (0.09 x 0.22 x 0.01)

