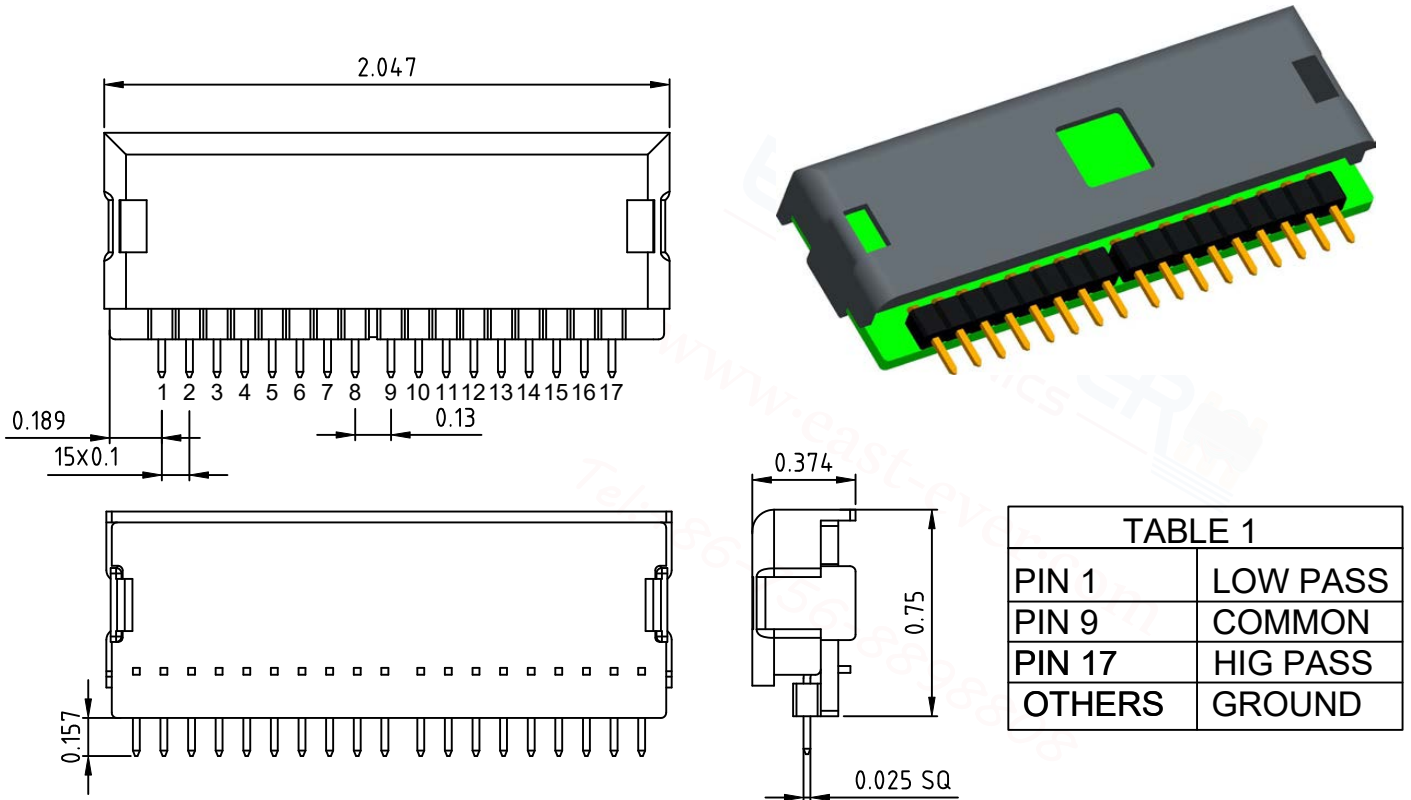


# 1.8GHz Plug-in Diplex Fliter

## Mechanical Dimensions(inches):



## Notes:

1. Cover Material: PC(UL94V0)
2. Material finish meet RoHS2 AND PFOS REQUEST
3. Tolerance unless otherwise specified is: 0-5:±0.15, 6-18:±0.20, 18-50:±0.25, 50-120:±0.30

## Environmental Requirements:

Units shall meet all specifications at ambient temperature of -30 to +85 degrees Celsius.

EASTEVER P/N	MINIMUM RETURN FREQUENCY $F_{minret}$	MAXIMUM RETURN FREQUENCY $F_{maxret}$	MINIMUM FORWARD FREQUENCY $F_{minfwd}$	MAXIMUM FORWARD FREQUENCY $F_{maxfwd}$
EDF005182-085102	10 MHz	85 MHz	102 MHz	1.794 GHz
EDF005182-204258	10 MHz	204 MHz	258 MHz	1.794 GHz
EDF005182-396492	10 MHz	396 MHz	492 MHz	1.794 GHz
EDF005182-492606	10 MHz	492 MHz	606 MHz	1.794 GHz
EDF005182-684834	10 MHz	684 MHz	834 MHz	1.794 GHz

# 1.8GHz Plug-in Diplex Fliter

85/102MHz, 204/258MHz Electrical characteristics SPEC @ 25 °C

Parameter	Units	Test Class	Port	Value	Notes	Value	Notes
Insertion Loss	dB	A, B, C	Low Pass	1.3	Max, 85 MHz	1.2	Max, 204 MHz
			High Pass	1.3	Max, 102 MHz	1.2	Max, 258 MHz
				1.4	Max, 1794 MHz	1.4	Max, 1794 MHz
Flatness	dB	B, C	Low Pass	0.1	Max, 10 - 68 MHz	0.1	Max, 10 - 164 MHz
			High Pass	0.15	Max, 222 - 1578 MHz	0.15	Max, 430 - 1578 MHz
Roll Off	dB	B, C	Low Pass	1.1	Max, 68 - 85 MHz	0.8	Max, 164 - 204 MHz
				1.1	Max, 102 - 222 MHz	0.8	Max, 258 - 430 MHz
			High Pass	0.3	Max, 1578 - 1794 MHz	0.3	Max, 1578 - 1794 MHz
Return Loss	dB	A, B, C	Low Pass	20	Min	20	Min
				22	Min, 10 - 85 MHz	22	Min, 10 - 204 MHz
			Common	22	Min, 102 - 600 MHz	22	Min, 258 - 600 MHz
				19	Min, 601 - 1794 MHz	19	Min, 601 - 1794 MHz
				High Pass	20	Min, 102 - 600 MHz	20
19	Min, 601 - 1794 MHz	19	Min, 601 - 1794 MHz				
Isolation	dB	A, B, C	HP-LP	50	Min, 10 - 85	50	Min, 10 - 204
				40	Min, 86 - 101 MHz	40	Min, 205 - 257 MHz
				50	Min, 102 - 600 MHz	50	Min, 258 - 600 MHz
				45	Min, 601 - 1000 MHz	45	Min, 601 - 1000 MHz
				40	Min, 1001 - 1794 MHz	40	Min, 1001 - 1794 MHz
Group Delay	nS	B, C	Low Pass	8	Max, 72.2 - 78.6 MHz	5	Max, 191.2 - 197.6 MHz
				24	Max, 78.6 - 85 MHz	7	Max, 197.6 - 204 MHz
			High Pass	21	Max, 102 - 108 MHz	5	Max, 258 - 264 MHz
				8	Max, 108 - 114 MHz	3	Max, 264 - 270 MHz

492/606MHz, 684/834MHz Electrical characteristics SPEC @ 25 °C

Parameter	Units	Test Class	Port	Value	Notes	Value	Notes
Insertion Loss	dB	A, B, C	Low Pass	1.4	Max, 492 MHz	1.4	Max, 684 MHz
			High Pass	1.4	Max, 606 MHz	1.4	Max, 834 MHz
				1.4	Max, 1794 MHz	1.4	Max, 1794 MHz
Flatness	dB	B, C	Low Pass	0.1	Max, 10 - 394 MHz	0.15	Max, 10 - 547 MHz
			High Pass	0.15	Max, 800 - 1578 MHz	0.15	Max, 1000 - 1578 MHz
Roll Off	dB	B, C	Low Pass	0.7	Max, 394 - 492 MHz	0.8	Max, 547 - 684 MHz
				0.6	Max, 606 - 800 MHz	0.6	Max, 834 - 1000 MHz
			High Pass	0.3	Max, 1578 - 1794 MHz	0.3	Max, 1578 - 1794 MHz
Return Loss	dB	A, B, C	Low Pass	20	Min, 10 - 492 MHz	20	Min, 10 - 684 MHz
				22	Min, 10 - 492 MHz	22	Min, 10 - 684 MHz
			Common	20	Min, 606 - 1000 MHz	20	Min, 834 - 1000 MHz
				19	Min, 1001 - 1794 MHz	19	Min, 1001 - 1794 MHz
				High Pass	20	Min, 606 - 1000 MHz	20
19	Min, 1001 - 1794 MHz	19	Min, 1001 - 1794 MHz				
Isolation	dB	A, B, C	HP-LP	60	Min, 10 - 200 MHz	60	Min, 10 - 200 MHz
				50	Min, 201 - 492 MHz	50	Min, 201 - 684 MHz
				43	Min, 493 - 605 MHz	43	Min, 685 - 833 MHz
				50	Min, 606 - 1000 MHz	50	Min, 834 - 1000 MHz
				45	Min, 1001 - 1220 MHz	45	Min, 1001 - 1220 MHz
Group Delay	nS	B, C	Low Pass	40	Min, 1221 - 1794 MHz	40	Min, 1221 - 1794 MHz
				3	Max, 479.2 - 485.6 MHz	3	Max, 671.2 - 677.6 MHz
			High Pass	3	Max, 485.6 - 492 MHz	3	Max, 677.6 - 684 MHz
				3	Max, 606 - 612 MHz	3	Max, 834 - 840 MHz