



FINAL QUALITY INSPECTION

is evaluated on a sample basis for:

Endurance : 125°C, IR, 4 hours

Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot

Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering,

• Static Humidity: 85°C, 85% RH, 160 hours

ELECTRICAL SPECIFICATIONS TABLE

ITF TECHNOLOGY

The BP0805 Band Pass Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

HOW TO ORDER

TERMINATION

vapor phase and manual.

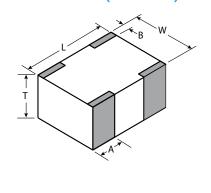
BP	0805	Α	XXXX	Α	S	TR
\top		Т		Т	Т	\top
Series	Case Size	Туре	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

APPLICATIONS

- 5G / 6G / UWB Applications
- **Base Stations** .
- Mobile communications
 - Satellite TV receivers
 - GPS
 - Vehicle location systems .
 - Wireless LAN's



DIMENSIONS (TOP VIEW)



mm (inches)		
L	2.03±0.1 (0.080±0.004)	
w	1.55±0.1 (0.061±0.004)	
т	0.80±0.1 (0.032±0.004)	
A	0.56±0.25 (0.022±0.010)	
В	0.35±0.15 (0.014±0.006)	

m (imahaa)

Passband Stopband Rejection (GHz) Low Band **High Band** Continuous Part Number Frequency I.L R.L Power Band Rejection Band Rejection Band Rejection Band Rejection Band Rejection dB dB (MHz) MH₇ dB MH₇ dB MH₇ dB MHz dB MHz dB (max (Typ) BP0805A1308ASTR 760-945 2920-3105 1220-1420 -2.0 -12 -16 -30 ------------------BP0805A1457ASTR 1447 -1467 DC-500 500-960 2110-2400 2500-3600 5150-6000 -1.5 -11 -30 -20 -25 -30 -19 BP0805A1795ASTR 1785 - 1805 869-894 925-960 2300-2400 2496-3600 5150-5925 -1.8 -15 -30 -20 -30 -25 -25 BP0805A2065ASTR 1930-2200 -1.3 -12 DC-1000 -20 4000-5000 -25 5000-6000 -30 --------BP0805A2160ASTR 1960-2360 -0.85-18 DC-440 -59 4320 -42 6480 -38 --------------9000 BP0805A3500ASTR DC-2000 3400-3600 -1.3 -15 -20 5250-7000 -25 7000-9000 -15 -10 ----10500 BP0805A3600ASTR DC-2000 5300-7200 7200-11000 3500-3700 -1.3 -15 -30 -25 -10 --------------5W BP0805A3700ASTR 3600-3800 -1.3 -15 DC-2000 -30 5300-7400 -25 7400-11500 -10 ----6550-BP0805A3900ASTR 3600-4200 -2.5 -18 DC-3000 -10 5100-6550 -22 -25 10000 10000 BP0805A4050ASTR 4000-4100 -1.3 -18 DC-2000 -25 6000-8000 -20 -12 ------------12000 BP0805A4320ASTR 4120-4520 -1.2 -15 DC-2160 -45 6480 -39 8640 -44 ----------7000 BP0805A5805ASTR -2 ----5795 - 5815 -15 DC-4000 -30 -20 ------------10000 10000-BP0805A7250ASTR 6625-7875 DC-5400 -25 -25 -1.5 -12 -------------15000

Click on part number to see full specifications

Custom Band Pass Filters are Available Per Request

KIDCERE | The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available

online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order. ANAX C



Description	Value
Center frequency	1308 MHz
Impedance	50 Ohm
Band	1220-1420 MHz
I. loss at center frequency	-1.2dB max.
In-band insertion loss flatness	-0.8dB
In-band return loss	-12dB
Rejection in [760-945 MHz]	-16dBc.
Rejection in [2920-3105 MHz]	-30dBc
Power handling (CW)	5W

Click here to return to main table

2.5±0.05

1.5±0.05

0.19±0.05

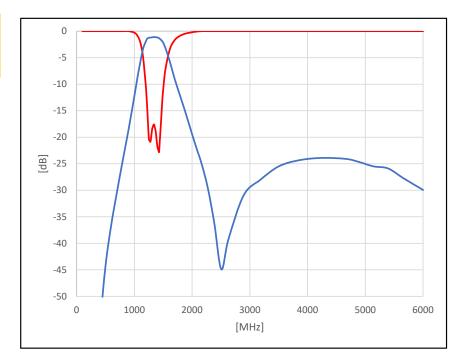
3.48±0.05

0.54±0.25

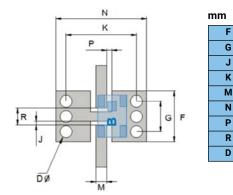
4.48±0.05

0.25±0.05 0.85±0.05

0.6±0.05

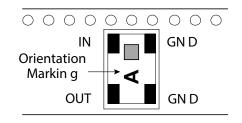


RECOMMENDED PAD LAYOUT



The recommended distance to the PCB $\,$ Ground Plane is 0.254mm (0.010') ** PCB: Taconic Orcer RF-35P $\,$

TERMINALS AND LAYOUT: (Top View)

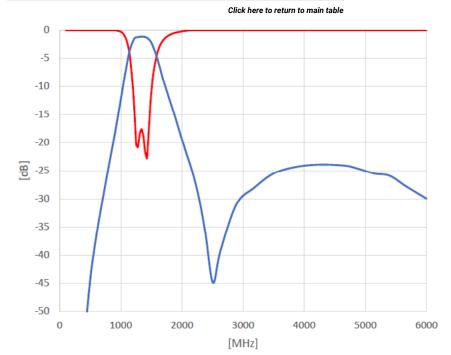


*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

EVB P/N: 544-7066



Description	Value
Center frequency	1457 MHz
Impedance	50 Ohm
Band	1447-1467 MHz
I. loss 1447-1467 MHz	-1.5dB max.
In-band VSWR (return loss)	< -1.8 (-11dB)
Rejection 925-960 MHz	>= -20dB
Rejection in 2110-2170 MHz	>= -25dB
Rejection in 2300-2400 MHz	>= -25dB
Rejection in 2500-2690 MHz	>= -30dB
Rejection 3400-3600 MHz	>= -30dB
Rejection 5150-5925 MHz	>= -19dB
Power handling (CW)	5W



2.5±0.05

1.5±0.05

0.19±0.05

3.48±0.05

0.54±0.25

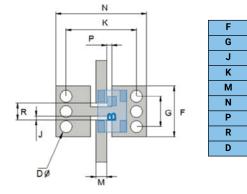
4.48±0.05

0.25±0.05

0.85±0.05

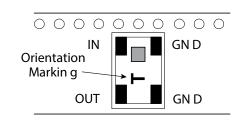
0.6±0.05

RECOMMENDED PAD LAYOUT: (mm)



The recommended distance to the PCB $\,$ Ground Plane is 0.254mm (0.010') ** PCB: Taconic Orcer RF-35P $\,$

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

EVB P/N: 544-7066

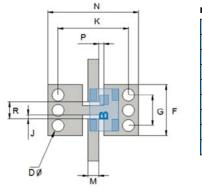


Description	Value
Center frequency	1795 MHz
Impedance	50 Ohm
Band	1785-1805 MHz
I. loss in band	-1.8dB max.
Return loss in band	-15dB
Rejection in [869~894 MHz]	-30dB min.
Rejection in [925~960 MHz]	-30dB min
Rejection in [2300~2400 MHz]	-30dB min
Rejection in [2496~2690 MHz]	-30dB
Rejection in [3400~3600 MHz]	-30dB
Rejection in [5150~5925 MHz]	-30dB
Power handling (CW)	5W

 $\begin{bmatrix} 0 \\ -10 \\ -20 \\ -30 \\ -40 \\ -50 \\ -60 \\ 0 \\ 1000 \\ 2000 \\ 3000 \\ 4000 \\ 5000 \\ 6000 \end{bmatrix}$

Click here to return to main table

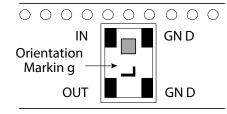
RECOMMENDED PAD LAYOUT: (mm)



mm 2.5±0.05 E 1.5±0.05 G J 0.19±0.05 3.48±0.05 Κ М 0.54±0.25 Ν 4.48±0.05 Ρ 0.25±0.05 0.85±0.05 R D 0.6±0.05

The recommended distance to the PCB Ground Plane is 0.254mm (0.010') ** PCB: Taconic Orcer RF-35P

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

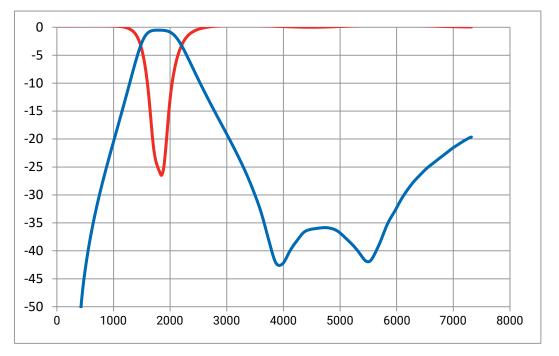
EVB P/N: 544-7066

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

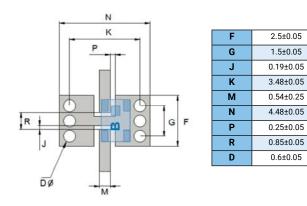


Description	Value
Center frequency	2065 MHz
Impedance	50 Ohm
Band	1930-2200 MHz
I. loss in-band	-1.3dB
Return loss in-band	-12 dB
Attenuation @ DC-1000 MHz	-20 dB
Attenuation @ 4000-5000 MHz	-25 dB
Attenuation @ 5000-6000 MHz	-30 dB
Power handling (CW)	5W

Click here to return to main table

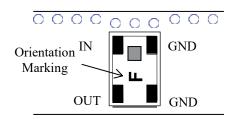


RECOMMENDED PAD LAYOUT: (mm)



The recommended distance to the PCB Ground Plane is 0.254mm (0.010°) ** PCB: Taconic Orcer RF-35P

TERMINALS AND LAYOUT: (Top View)

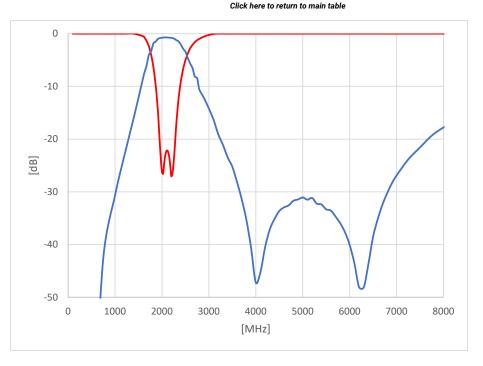


*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

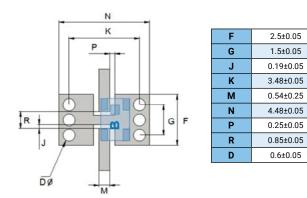
EVB P/N: 544-7066



Description	Value
Center frequency	2160 MHz
Impedance	50 Ohm
Band	1960-2360 MHz
I. loss at center frequency	-0.85dB max
In-band return loss	-18dB
Rejection at 440 MHz	-59dB
Rejection at 4320 MHz	-42dB
Rejection at 6480 MHz	-38dB
Power handling (CW)	5W

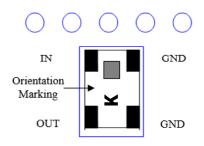


RECOMMENDED PAD LAYOUT: (mm)



The recommended distance to the PCB Ground Plane is 0.254mm (0.010') ** PCB: Taconic Orcer RF-35P

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

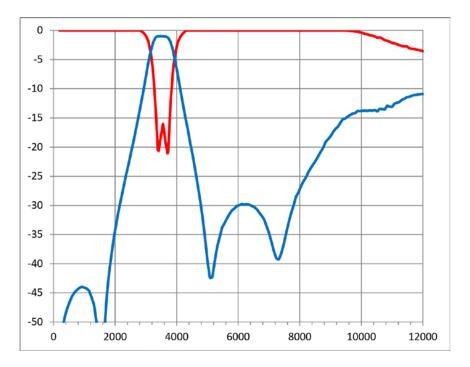
EVB P/N: 544-7066

256

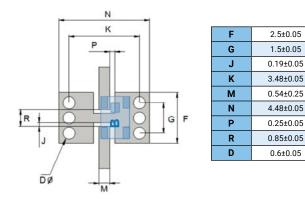


Description	Value
Center frequency	3500 MHz
Impedance	50 Ohm
I. loss 3400-3600 MHz	-1.3dB max.
In-band return loss	-15dB
Rejection in [370 – 2000 MHz]	-20dBc min.
Rejection in [5250-7000 MHz]	-25dBc min
Rejection in [7000-9000 MHz]	-15dBc min
Power Handling (CW)	5 Watt

Click here to return to main table

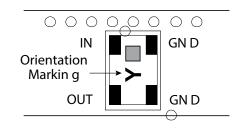


RECOMMENDED PAD LAYOUT: (mm)



The recommended distance to the PCB Ground Plane is 0.254mm (0.010') ** PCB: Taconic Orcer RF-35P

TERMINALS AND LAYOUT: (Top View)



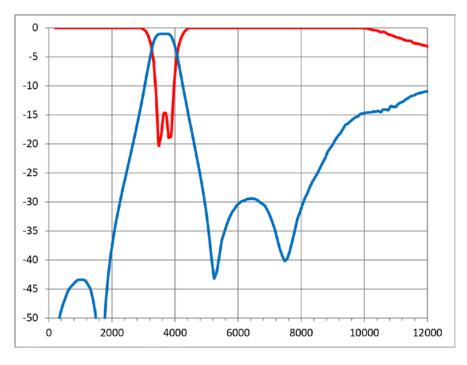
*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

EVB P/N: 544-7066

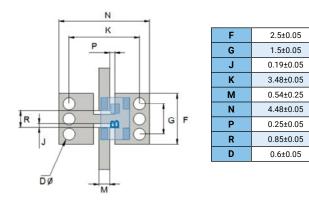


Description	Value
Center frequency	3600 MHz
Impedance	50 ohm
I. loss 3500-3700MHz	-1.3dB max.
In-band return loss	-15dB
rejection in [370 - 2000MHz]	-25dBc min.
rejection in [5300-7200MHz]	-25dBc mim
rejection in [7200-11000MHz]	-10dBc min
power handling (CW)	5 Watt

Click here to return to main table

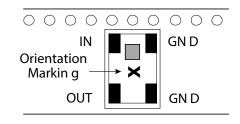


RECOMMENDED PAD LAYOUT: (mm)



The recommended distance to the PCB $\,$ Ground Plane is 0.254mm (0.010") ** PCB: Taconic Orcer RF-35P $\,$

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

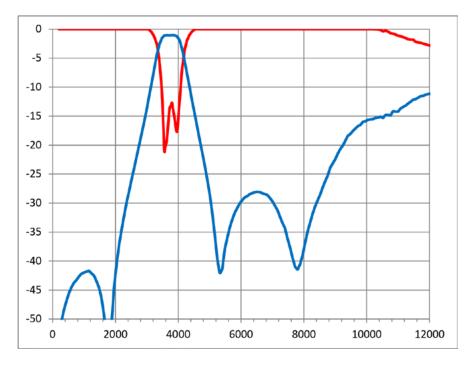
EVB P/N: 544-7066

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

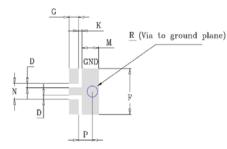


Description	Value
Center frequency	3700 MHz
Impedance	50 Ohm
I. loss 3600-3800 MHz	-1.3dB max.
In-band return loss	-15dB
rejection in [370 – 2000 MHz]	-25dBc min.
rejection in [5300-7400 MHz]	-25dBc min
rejection in [7400-11500 MHz]	-10dBc min
power handling (CW)	5 Watt

Click here to return to main table

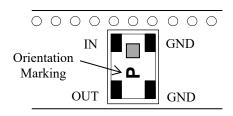


RECOMMENDED PAD LAYOUT: (mm)



R	ø0.6
G	0.54
K	0.2
Ν	0.85
М	0.95
F	2.5
Р	0.79
D	0.225

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

The recommended distance to the PCB Ground Plane is 0.254mm (0.010") ** PCB: Taconic Orcer RF-35P

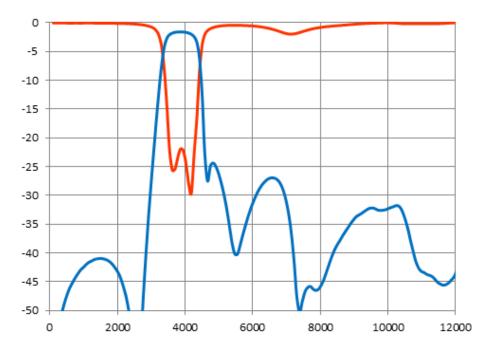
EVB P/N: 544-7066

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

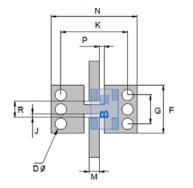


Description	Value		
Center frequency	3900 MHz		
Impedance	50 Ohm		
I. loss 3600-4200 MHz	-2.5 dB		
Return loss in-band	-18 dB		
Rejection in [DC - 3000 MHz]	-10 dB		
Rejection in [5100-6550 MHz]	-22 dB		
Rejection in [6550-10000 MHz]	-25 dB		
Power handling (CW)	5 Watt		

Click here to return to main table

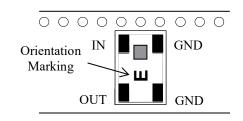


RECOMMENDED PAD LAYOUT: (mm)



F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
М	0.54±0.25
Ν	4.48±0.05
Р	0.25±0.05
R	0.85±0.05
D	0.6±0.05

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

EVB P/N: 544-7066

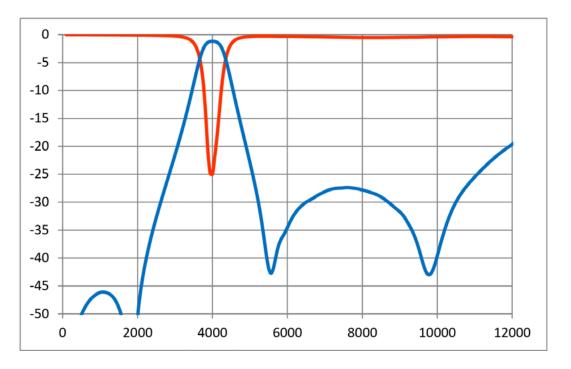
The recommended distance to the PCB Ground Plane is 0.254mm (0.010') ** PCB: Taconic Orcer RF-35P

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

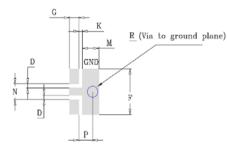


Description	Value
Center frequency	4050 MHz
Impedance	50 ohm
I. loss 4000-4100MHz	-1.3dB max.
In-band return loss	-18dB
Rejection in DC-2000MHz	-25dBc min.
Rejection in 6000-8000MHz	-25dBc mim
Rejection in 10000-12000MHz	-15dBc min
Power handling (CW)	5 Watt

Click here to return to main table



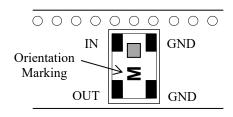
RECOMMENDED PAD LAYOUT: (mm)



mm		
R	ø0.6	
G	0.54	
K	0.2	
N	0.85	
М	0.95	
F	2.5	
Р	0.79	
D	0.225	

The recommended distance to the PCB. Ground Plane is 0.254mm (0.010') ** PCB: Taconic Orcer RF-35P

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

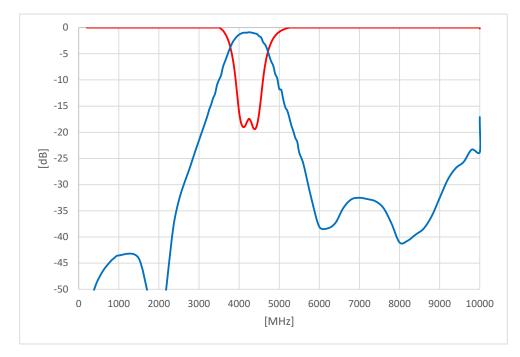
EVB P/N: 544-7066

CALCERT The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

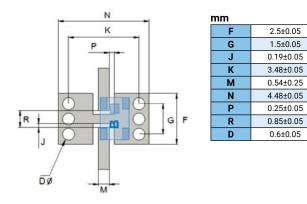


Description	Value
Center frequency	4320 MHz
Impedance	50 Ohm
Band	4120-4520 MHz
I. loss at center frequency	1.2dB max
In-band return loss	15dB
Rejection at 2160 MHz	45dBc min
Rejection at 6480 MHz	39dBc min
Rejection at 8640 MHz	44dBc min
Power handling (CW)	5W

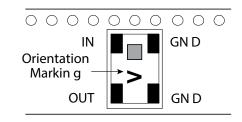
Click here to return to main table



RECOMMENDED PAD LAYOUT: (mm)



TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

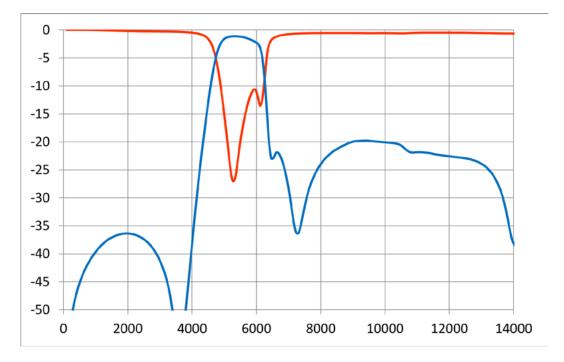
EVB P/N: 544-7066

The recommended distance to the PCB Ground Plane is 0.254mm (0.010") ** PCB: Taconic Orcer RF-35P

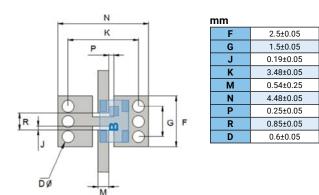


Description	Value
Center frequency	5805 MHz
Impedance	50 Ohm
I. loss 5795 - 5815 MHz	-2.0 dB
In-band return loss	-15 dB
Rejection at [DC - 4000 MHz]	-30 dB
Rejection at [7000 – 10000 MHz]	-20 dB
Power handling (CW)	5W

Click here to return to main table

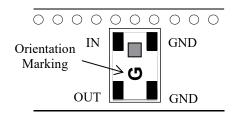


RECOMMENDED PAD LAYOUT: (mm)



The recommended distance to the PCB Ground Plane is 0.254mm (0.010°) ** PCB: Taconic Orcer RF-35P

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

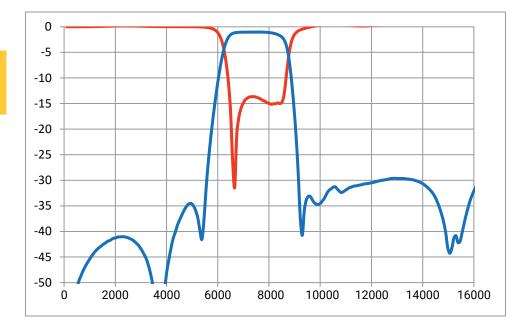
EVB P/N: 544-7066

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

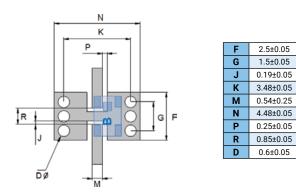


Description	Value
Center frequency	7250 MHz
Impedance	50 Ohm
I. loss 6625-7875 MHz	-1.5 dB
Return loss in-band	-12 dB
Rejection in [DC - 5400 MHz]	-25 dB
Rejection in [10000 - 15000 MHz]	-25 dB
Power handling (CW)	5 Watt

Click here to return to main table

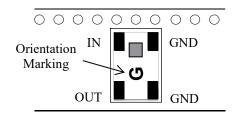


RECOMMENDED PAD LAYOUT: (mm)



The recommended distance to the PCB Ground Plane is 0.254mm (0.010°) ** PCB: Taconic Orcer RF-35P

TERMINALS AND LAYOUT: (Top View)



*The recommended distance to the ground plane is 0.254mm (0.01") ** PCB : Taconic Orcer RF-35P

EVB P/N: 544-7066