

TDK Products for Wireless LAN

11/4/2002

for 5GHz (Wide Band)

Multilayer BalBPF

Start Freq. MHz	Stop Freq. MHz	Ins. Loss dB (MAX)	Bal. imped. ohm	Atenuation (Typ.)				Size mm (typ.)	Part No.
				MHz	dB	MHz	dB		
5150	5875	2.5	100	2700	43	10300	30	2.5x2.0x1.0	DEA255512BT-7006A2
5150	5350	2.0	100	2700	43	10300	30	2.5x2.0x1.0	DEA255512BT-7007A2
4900	5950	2.5	100	2700	43	10300	30	2.5x2.0x1.0	DEA255512BT-7008A2

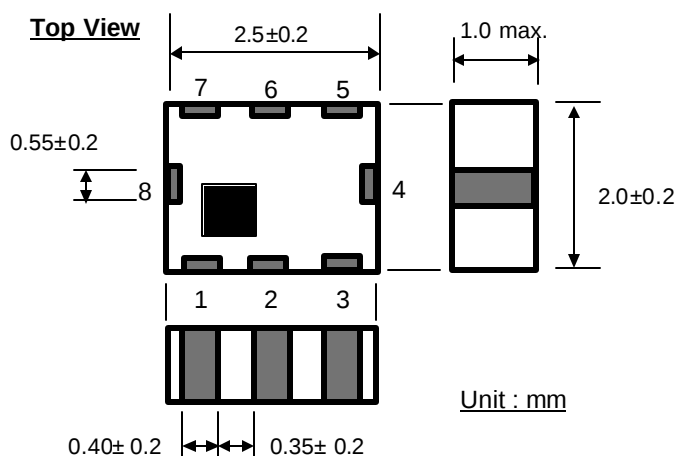
Sample Available

Under developing

Multilayer Band Pass Filter with Balun

P/N : **DEA255512BT-7006A2** For 5GHz W-LAN

MECHANICAL DIMENSIONS



PIN CONFIGURATION

PIN ASSIGNMENT	PIN No.
Unbalanced	4
Balanced	1
Balanced	2
GND or DC feed	6
NC	7
GND	3,5,8

ELECTRICAL CHARACTERISTICS

Unbalanced Impedance	50 ohm
Balanced Impedance	100 ohm
Frequency Range (Pass Band)	5150 – 5875 MHz
Input Return Loss	8 dB min.
Phase Imbalance at Balanced Ports	180 ±10 deg
Amplitude Imbalanced at Balanced Ports	0 ± 1.5 dB max.
Insertion Loss (25 °C)	2.5 dB max.
Insertion Loss (FULL TEMP)	2.8 dB max.
Attenuation (DC – 2700 MHz)	35 dB min.
Attenuation (10300 – 10700 MHz)	20 dB min.

TEMPERATURE RANGE

Storage Temperature: -40 ~ +85 °C

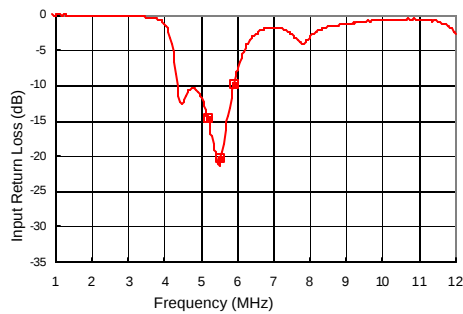
Operating Temperature: -40 ~ +85 °C

FREQUENCY RESPONSE

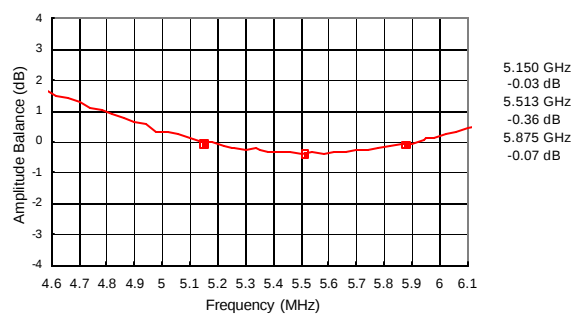
DEA7006A2 (UNBALANCE 50ohm/BALANCE 100ohm)

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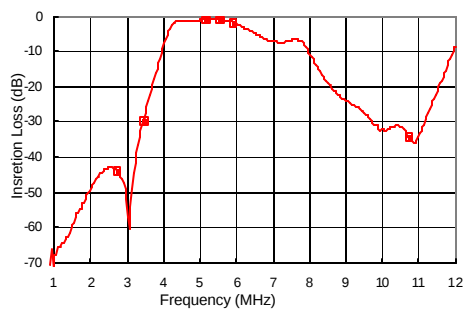
Input Return Loss



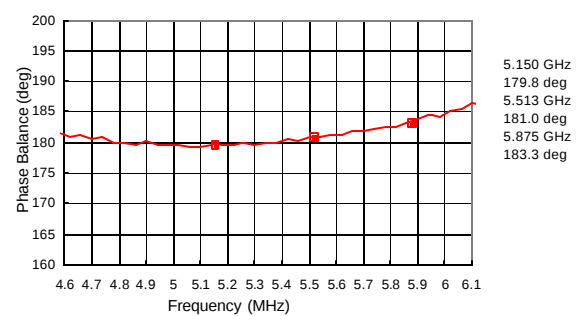
Amplitude Balance



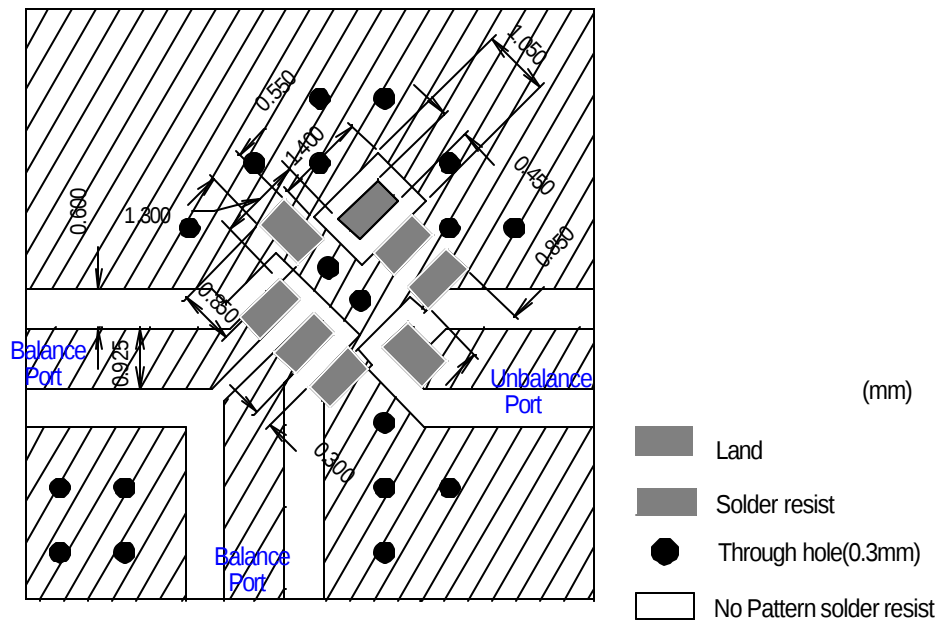
Attenuation



Phase Balance



RECOMMENDED LAND PATTERN



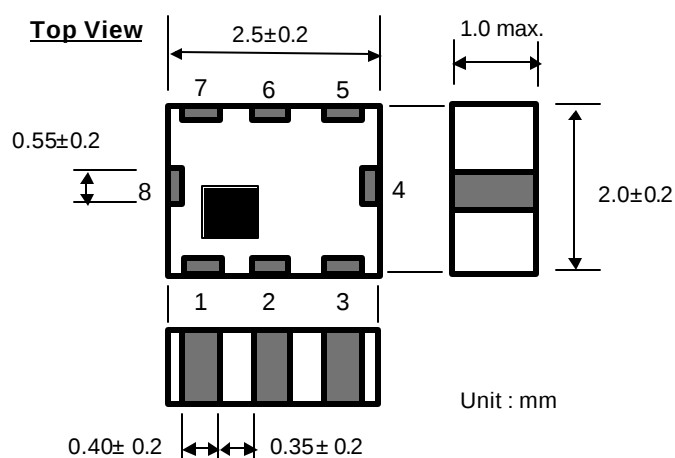
Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

Note: All specifications are subject to change and are not guaranteed.

Multilayer Band Pass Filter with Balun

P/N : **DEA255250BT-7007A2** For 5GHz W-LAN

MECHANICAL DIMENSIONS



PIN CONFIGURATION

PIN ASSIGNMENT	PIN No.
Unbalanced	4
Balanced	1
Balanced	2
GND or DC feed	6
NC	7
GND	3,5,8

ELECTRICAL CHARACTERISTICS

Unbalanced Impedance	50 ohm
Balanced Impedance	100 ohm
Frequency Range (Pass Band)	5150 – 5350 MHz
Input Return Loss	9 dB min.
Phase Imbalance at Balanced Ports	180 ±10 deg
Amplitude Imbalanced at Balanced Ports	0 ± 1.0 dB max.
Insertion Loss (25 °C)	2.0 dB max.
Insertion Loss (FULL TEMP)	2.3 dB max.
Attenuation (DC – 2700 MHz)	35 dB min.
Attenuation (10300 – 10700 MHz)	20 dB min.

TEMPERATURE RANGE

Storage Temperature: -40 ~ +85 °C

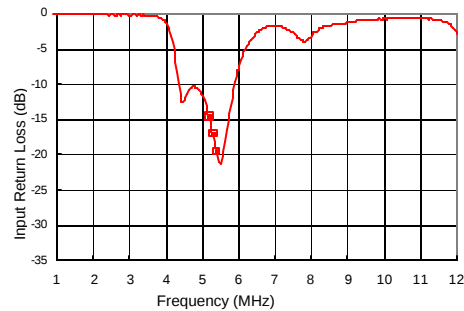
Operating Temperature: -40 ~ +85 °C

FREQUENCY RESPONSE

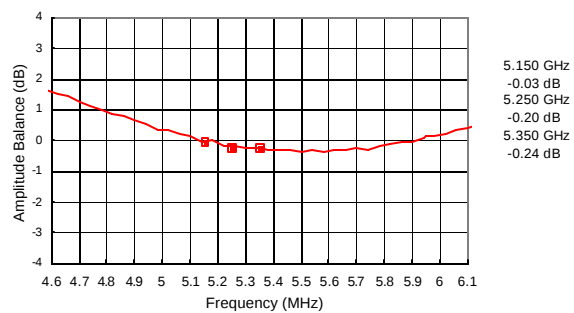
DEA7007A2 (UNBALANCE 50ohm/BALANCE 100ohm)

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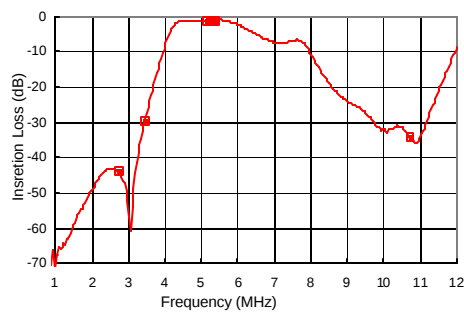
Input Return Loss



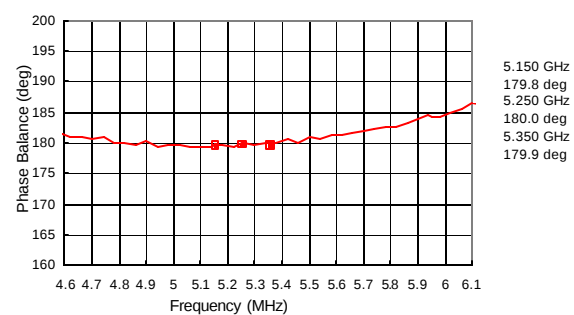
Amplitude Balance



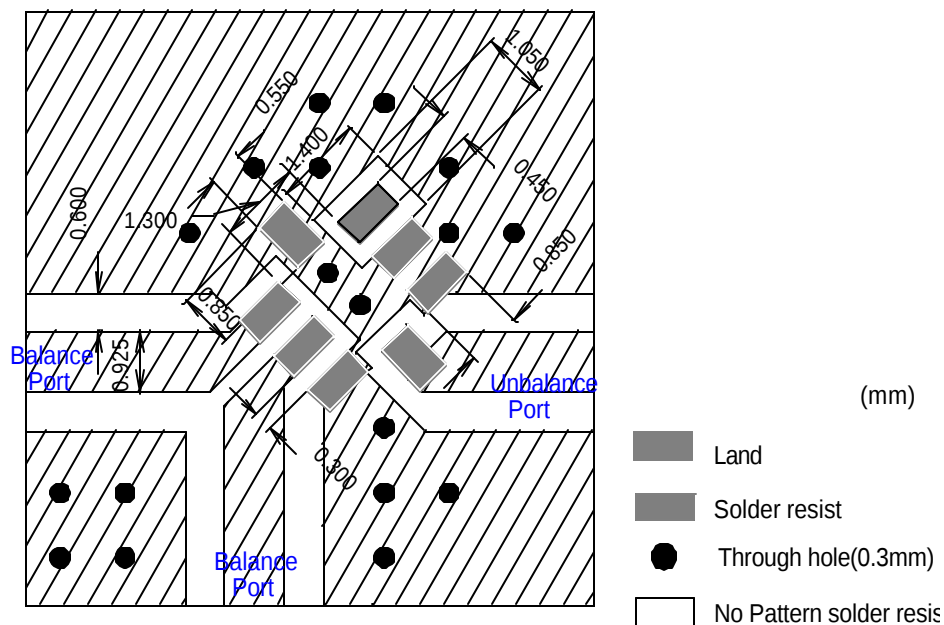
Attenuation



Phase Balance



RECOMMENDED LAND PATTERN



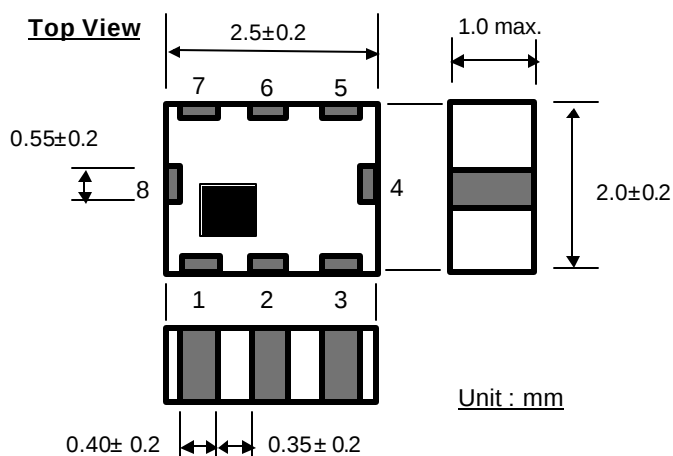
Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

Note: All specifications are subject to change and are not guaranteed.

Multilayer Band Pass Filter with Balun

P/N : **DEA255425BT-7008A2** For 5GHz W-LAN

MECHANICAL DIMENSIONS



PIN CONFIGURATION

PIN ASSIGNMENT	PIN No.
Unbalanced	4
Balanced	1
Balanced	2
GND or DC feed	6
NC	7
GND	3,5,8

ELECTRICAL CHARACTERISTICS

Unbalanced Impedance	50 ohm
Balanced Impedance	100 ohm
Frequency Range (Pass Band)	4900 – 5950 MHz
Input Return Loss	7 dB min.
Phase Imbalance at Balanced Ports	180 ±15 deg
Amplitude Imbalanced at Balanced Ports	0 ± 2.0 dB max.
Insertion Loss (25 °C)	2.5 dB max.
Insertion Loss (FULL TEMP)	2.8 dB max.
Attenuation (DC – 2700 MHz)	35 dB min.
Attenuation (10300 –10700 MHz)	20 dB min.

TEMPERATURE RANGE

Storage Temperature: -40 ~ +85 °C

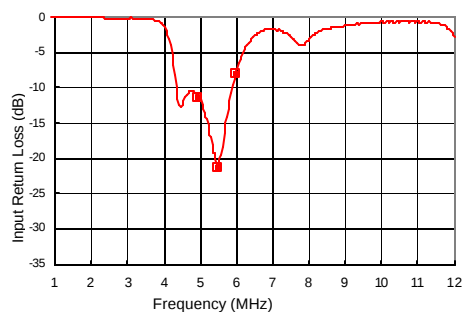
Operating Temperature: -40 ~ +85 °C

FREQUENCY RESPONSE

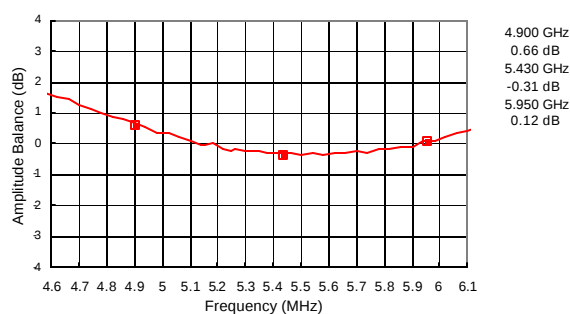
DEA7008A2 (UNBALANCE 50ohm/BALANCE 100ohm)

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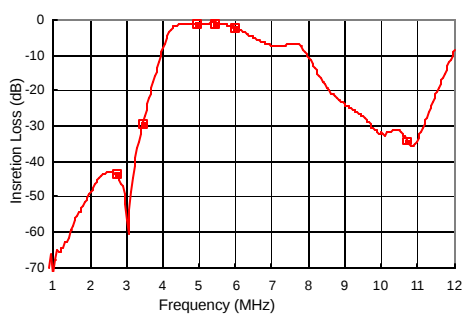
Input Return Loss



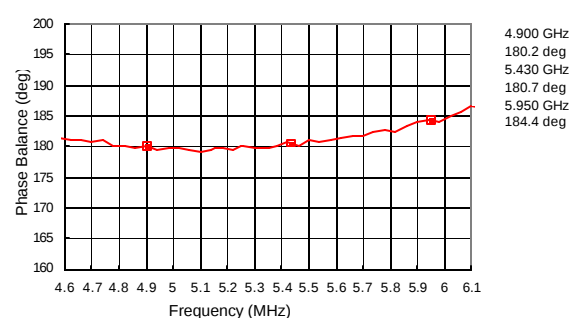
Amplitude Balance



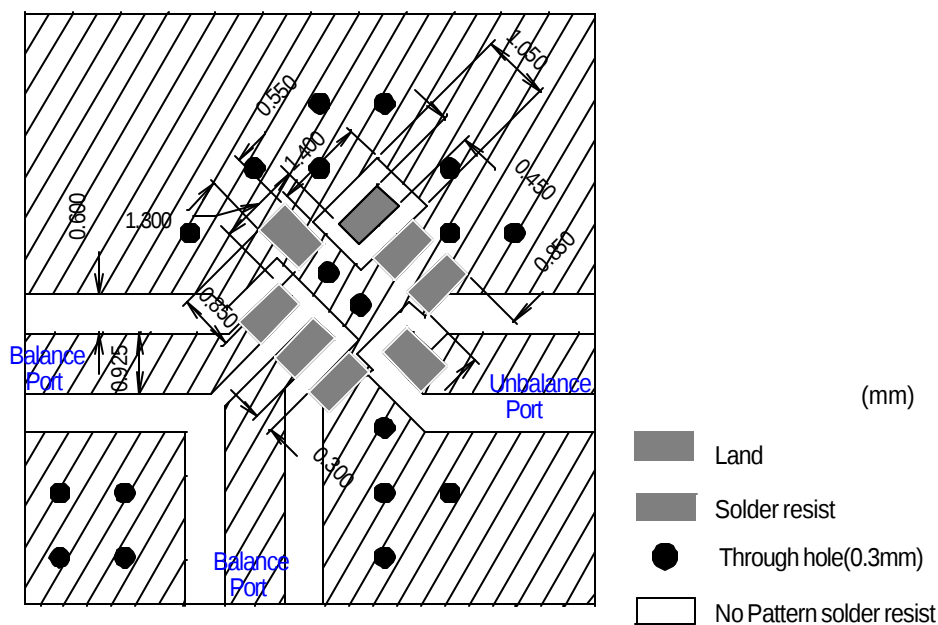
Attenuation



Phase Balance



RECOMMENDED LAND PATTERN



Line width be designed to match 50ohm characteristic impedance, depending on PCB material and thickness.

Note: All specifications are subject to change and are not guaranteed.