

Multilayer Band Pass Filters(Balance Output Type)

For 2.4GHz W-LAN/Bluetooth

DEA Series

Type: **DEA202450BT-7171A1 (2.0×1.25×0.6mm max.)**
 DEA202450BT-7190A1 (2.0×1.25×0.6mm max.)
 DEA202450BT-7099A1 (2.0×1.25×0.8mm max.)
 DEA202450BT-7100C1 (2.0×1.25×0.8mm max.)
 DEA202350BT-7196A1 (2.0×1.25×0.9mm)
 DEA202450BT-7077A1 (2.0×1.25×0.95mm)
 DEA202450BT-7089C3 (2.0×1.25×1.0mm max.)
 DEA202450BT-7112B1 (2.0×1.25×1.0mm max.)
 DEA202450BT-7112E1 (2.0×1.25×1.0mm max.)

Issue date: December 2010

- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

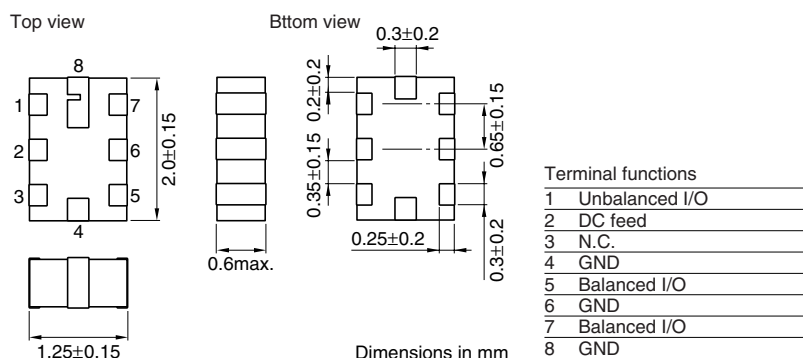
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202450BT-7171A1

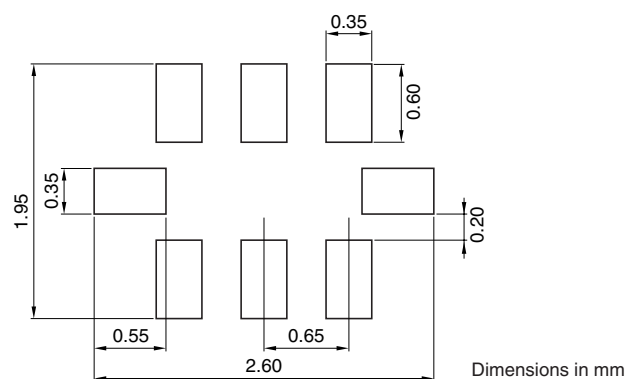
FEATURES

- Miniature balanced band pass filter.
- Matched to $34+j60\Omega$.
- Package size: $2.0 \times 1.25\text{mm}$.
- Low profile : 0.6mm max. height.

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS

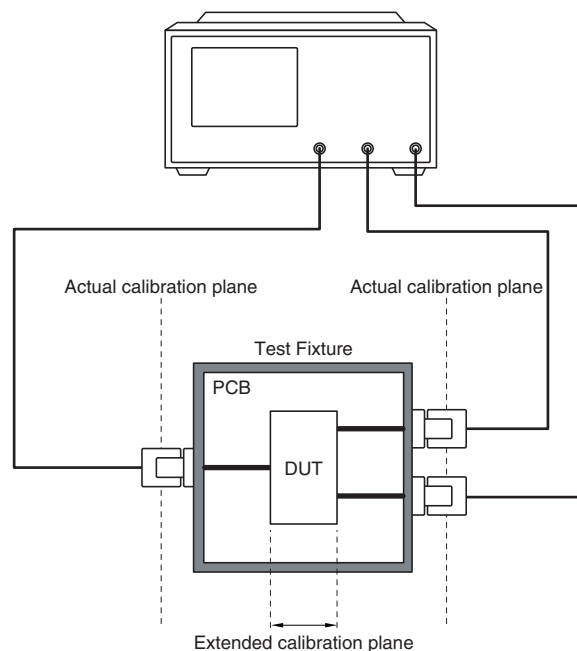


Note 1: Pin 2 of the filter provides a DC feed connection to the balanced ports.

In the event that this function is used, pin 2 should be connected to ground using a de-coupling capacitor.

Note 2: In the event that the pin 2 function is not used, the pin should be left unconnected.

EVALUATION SETUP



Note 1: The Port Extension function on the Network Analyser is used to extend the calibration plane to the DUT terminals.

Note 2: Loss in the PCB traces is compensated for by measurement data taken on a PCB Thru' line.

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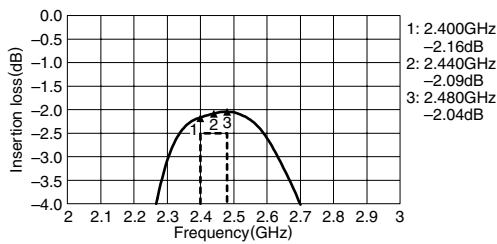
- All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

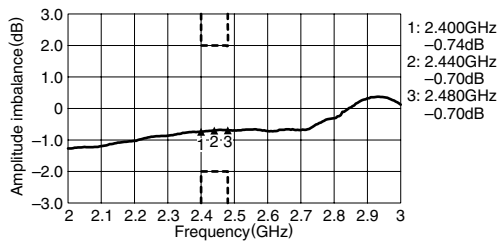
Insertion Loss	[2402 to 2480MHz]	3.0dB max.
Single ended port characteristic impedance	—	50Ω (Nominal)
Balanced ports impedance, nominal value	—	34 + j60Ω
VSWR: Unbalanced port	[2402 to 2480MHz]	2max.
VSWR: Balanced port (with respect to nominal balanced impedance)	[2402 to 2480MHz]	2max.
Attenuation	[880 to 960MHz]	35dB min.
	[1710 to 1880MHz]	22dB min.
	[1880 to 1910MHz]	20dB min.
	[2110 to 2170MHz]	—
	[4804 to 4960MHz]	18dB min.
Phase difference at balanced port	[2402 to 2480MHz]	180±10.0°
Amplitude imbalance at balanced port	[2402 to 2480MHz]	0±2dB
Temperature range	Operating	−40 to +85°C
	Storage	−40 to +85°C

FREQUENCY CHARACTERISTICS

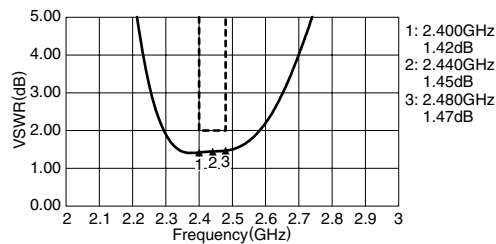
SDS21 INSERTION LOSS



AMPLITUDE IMBALANCE

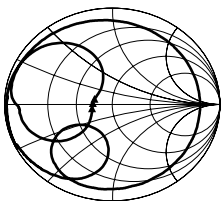


SSS11 VSWR

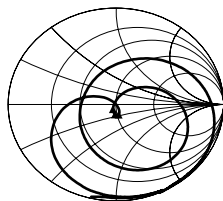


SMITH CHARTS

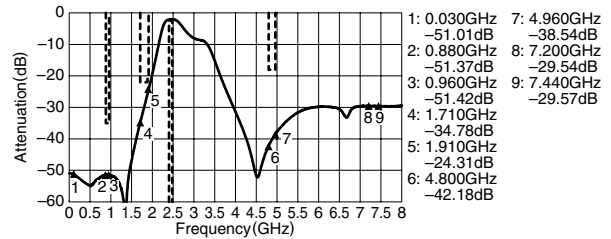
SSS11



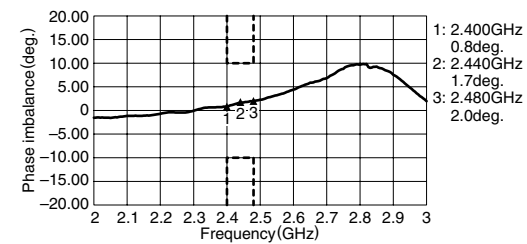
SDD22



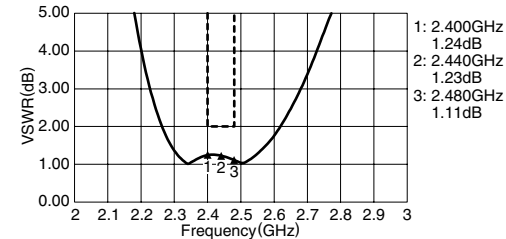
SDS21 ATTENUATION



PHASE IMBALANCE

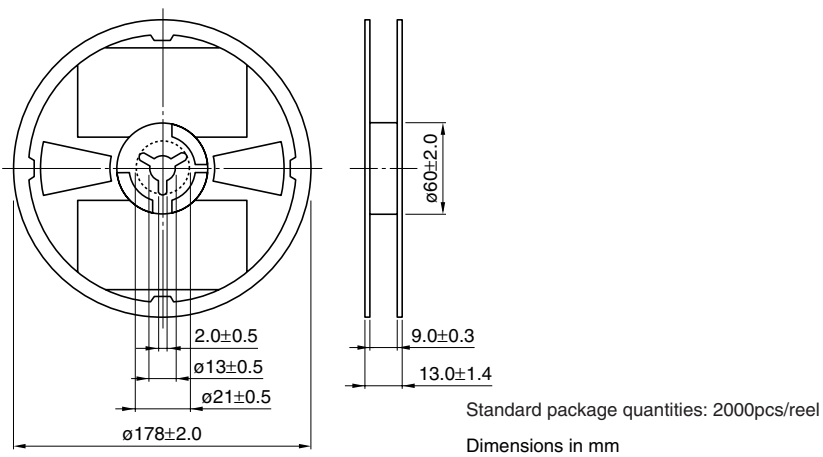


SDD22 VSWR

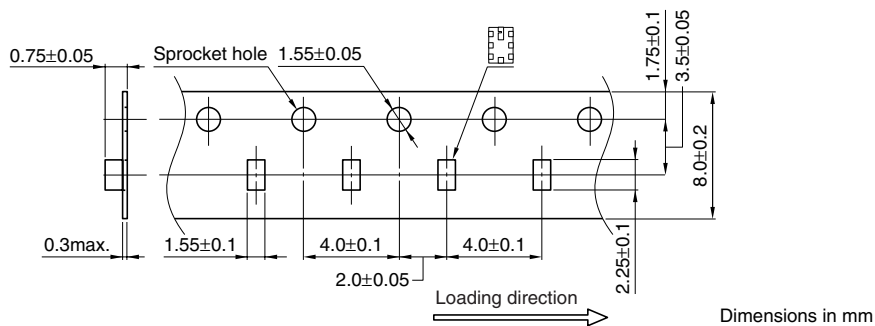


PACKAGING STYLES

REEL DIMENSIONS



TAPE DIMENSIONS



Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

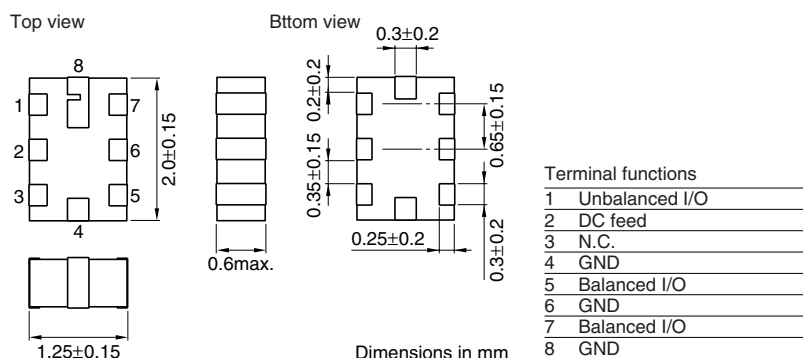
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202450BT-7190A1

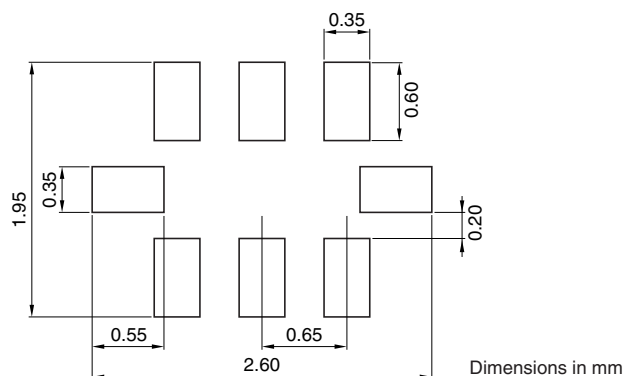
FEATURES

- Miniature balanced band pass filter.
- Matched to $34+j60\Omega$.
- Package size: $2.0 \times 1.25\text{mm}$.
- Low profile : 0.6mm max. height.

SHAPES AND DIMENSIONS



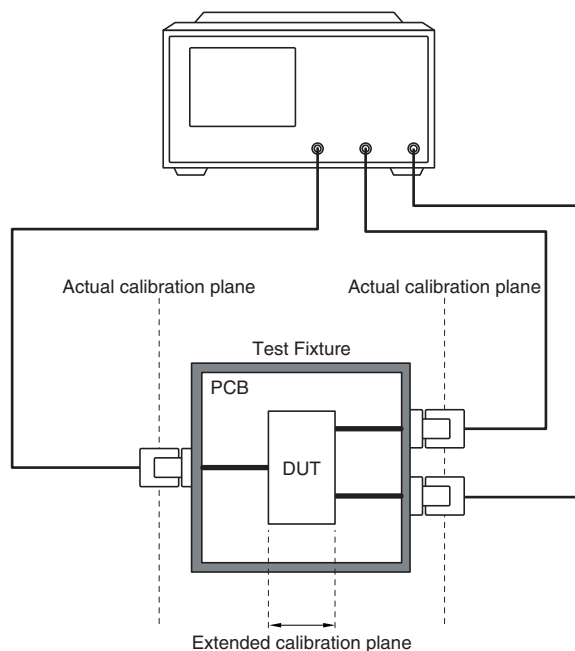
RECOMMENDED PC BOARD PATTERNS



Note 1: Pin 2 of the filter provides a DC feed connection to the balanced ports.
In the event that this function is used, pin 2 should be connected to ground using a de-coupling capacitor.

Note 2: In the event that the pin 2 function is not used, the pin should be left unconnected.

EVALUATION SETUP



Note 1: The Port Extension function on the Network Analyser is used to extend the calibration plane to the DUT terminals.

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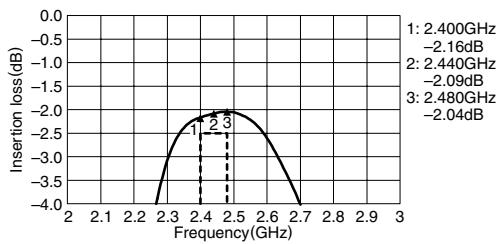
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ELECTRICAL CHARACTERISTICS

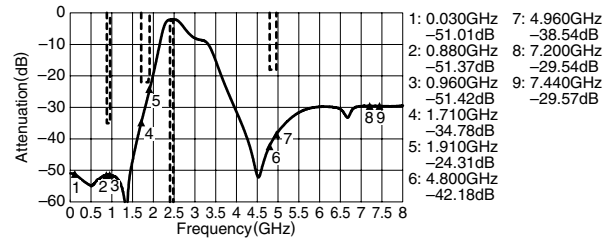
Insertion Loss	[2402 to 2480MHz]	3.0dB max.
Single ended port characteristic impedance	—	50Ω (Nominal)
Balanced ports impedance, nominal value	—	34 + j60Ω
VSWR: Unbalanced port	[2402 to 2480MHz]	2max.
VSWR: Balanced port (with respect to nominal balanced impedance)	[2402 to 2480MHz]	2max.
Attenuation	[880 to 960MHz]	35dB min.
	[1710 to 1880MHz]	22dB min.
	[1880 to 1910MHz]	20dB min.
	[2110 to 2170MHz]	—
	[4804 to 4960MHz]	18dB min.
Phase difference at balanced port	[2402 to 2480MHz]	180±10.0°
Amplitude imbalance at balanced port	[2402 to 2480MHz]	0±2dB
Temperature range	Operating	−40 to +85°C
	Storage	−40 to +85°C

FREQUENCY CHARACTERISTICS

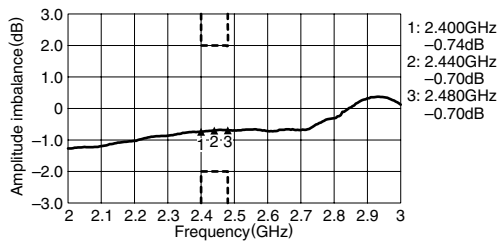
SDS21 INSERTION LOSS



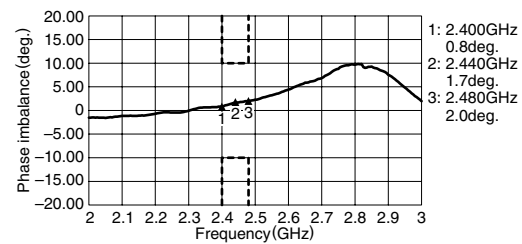
SDS21 ATTENUATION



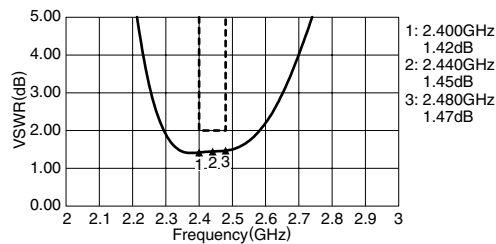
AMPLITUDE IMBALANCE



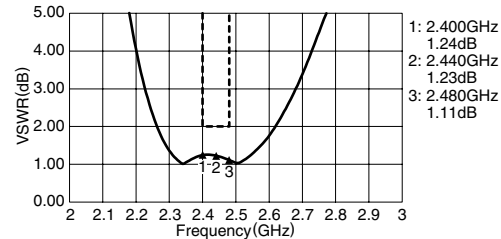
PHASE IMBALANCE



SSS11 VSWR

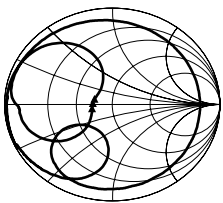


SDD22 VSWR

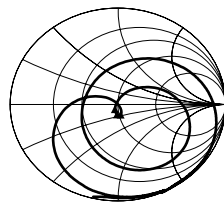


SMITH CHARTS

SSS11

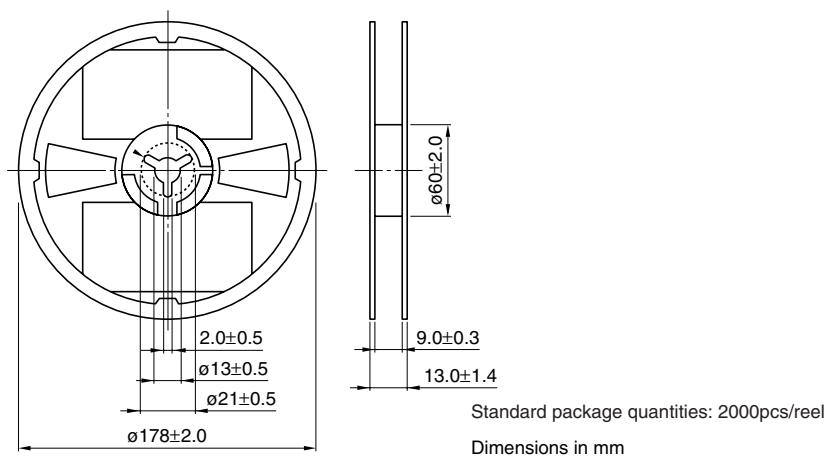


SDD22

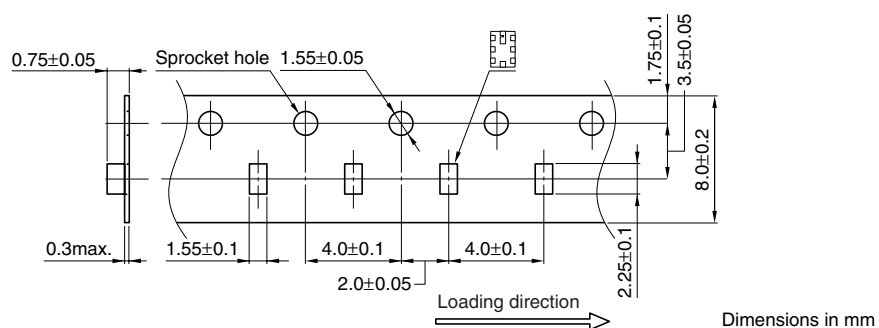


PACKAGING STYLES

REEL DIMENSIONS



TAPE DIMENSIONS



Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

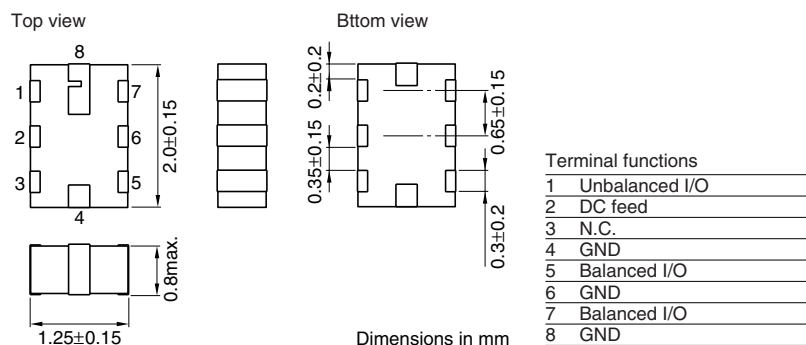
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202450BT-7099A1

FEATURES

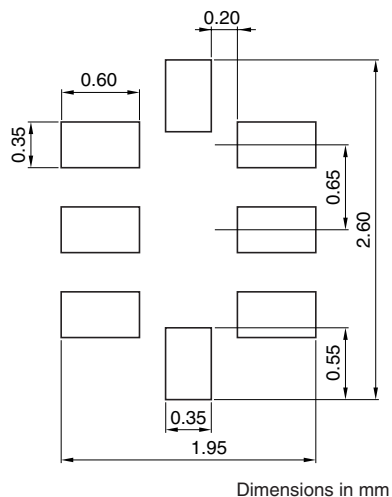
- Miniature balanced band pass filter.
- Matched to $24+j48.8\Omega$.
- Package size: $2.0 \times 1.25\text{mm}$.
- Low profile : 0.8mm max. height.

SHAPES AND DIMENSIONS



The identification marking in figure refer to prototype components only.
A different component mark is used for mass production.

RECOMMENDED PC BOARD PATTERNS



- Pin 2 of the filter provides a DC feed connection to the balanced ports.
- In the event that this function is used pin 2 should be connected to ground using a de-coupling capacitor.

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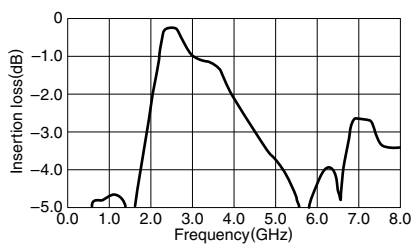
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ELECTRICAL CHARACTERISTICS

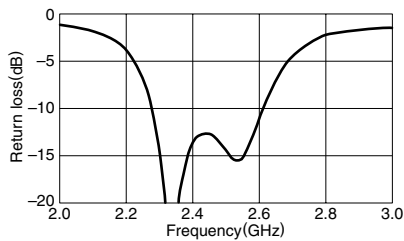
Insertion Loss	[2402 to 2480MHz]	2.3dB typ.
Single ended port characteristic impedance	—	50Ω (Nominal)
Balanced ports impedance, nominal value	—	24 + j48.8Ω
Return loss: Unbalanced port	[2402 to 2480MHz]	11.9dB typ.
Return loss: Balanced port (with respect to nominal balanced impedance)		11dB typ.
Attenuation	[880 to 960MHz]	47dB typ.
	[1710 to 1880MHz]	29dB typ.
	[1880 to 1910MHz]	27dB typ.
	[2110 to 2170MHz]	10dB typ.
	[4804 to 4960MHz]	36dB typ.
Phase difference at balanced port	[2402 to 2480MHz]	176deg typ.
Amplitude imbalance at balanced port	[2402 to 2480MHz]	0.9dB typ.
Temperature range	Operating	−40 to +85°C
	Storage	−40 to +85°C

FREQUENCY CHARACTERISTICS

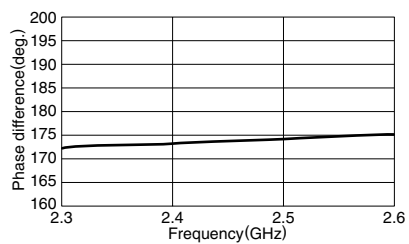
INSERTION LOSS/ATTENUATION



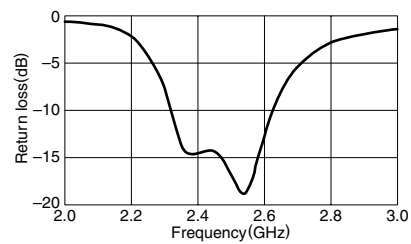
RETURN LOSS(Balance)



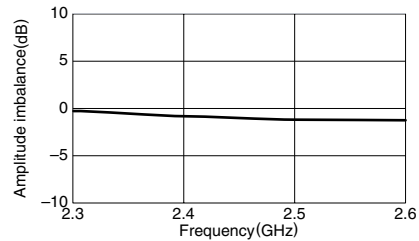
PHASE DIFFERENCE



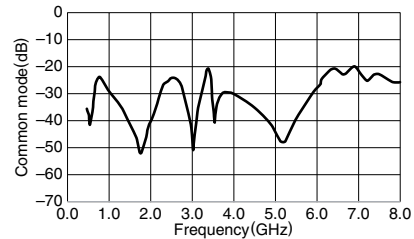
RETURN LOSS(Unbalance)



AMPLITUDE IMBALANCE



COMMON MODE

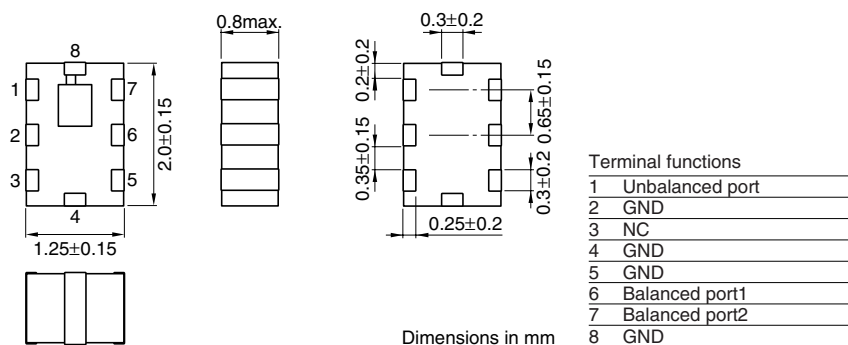


Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

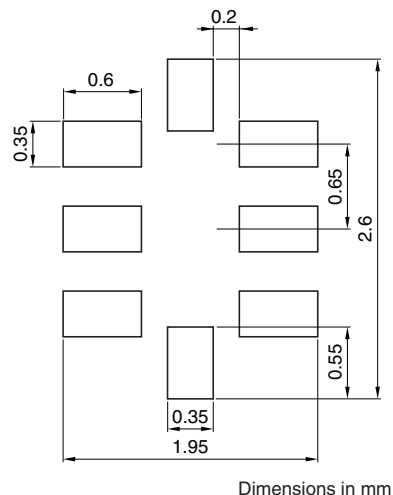
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202450BT-7100C1

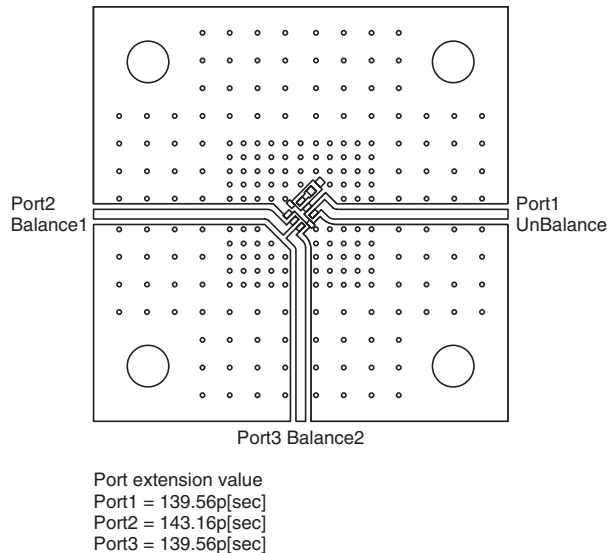
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



EVALUATION BOARD



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ELECTRICAL CHARACTERISTICS

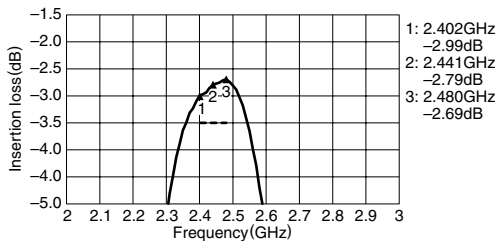
Item		Minimum value	Typical value	Maximum value
Unbalanced port characteristics impedance	(Ω)	50[Nominal]		
Balanced port characteristics impedance	(Ω)	25+j30[Nominal]		
Differential mode insertion loss	[2402 to 2480MHz]	(dB)	3.0	3.5
	[65 to 108MHz]	(dB)	70	—
	[824 to 960MHz]	(dB)	46	—
Differential mode attenuation	[1570 to 1580MHz]	(dB)	43	—
[100 Ω reference]	[1710 to 1990MHz]	(dB)	44	—
	[2010 to 2170MHz]	(dB)	31	—
	[7200 to 7500MHz]	(dB)	40	—
Common mode attenuation	[1570 to 1580MHz]	(dB)	34	—
[25 Ω reference]	[1710 to 1990MHz]	(dB)	36	—
	[2010 to 2170MHz]	(dB)	33	—
	[4800 to 5000MHz]	(dB)	25	—
In/out return loss		(dB)	13	—
Phase difference at balanced port		(deg.)	174	—
Amplitude imbalance at balanced port		(dB)	1.7	—
Temperature range	Operating	(°C)	—	+85
	Storage	(°C)	—	+85

• Ta: +25°C

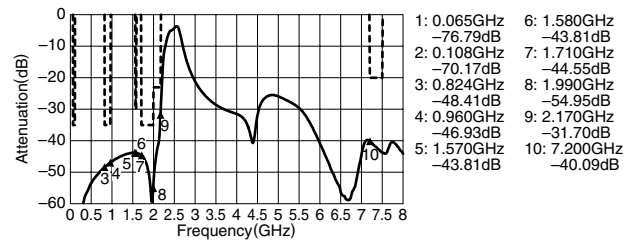
FREQUENCY CHARACTERISTICS

Unbalance 50 Ω /Balance 25+j30 Ω

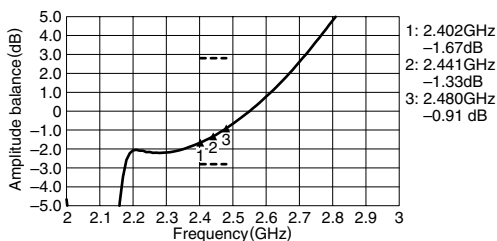
SDS21 INSERTION LOSS



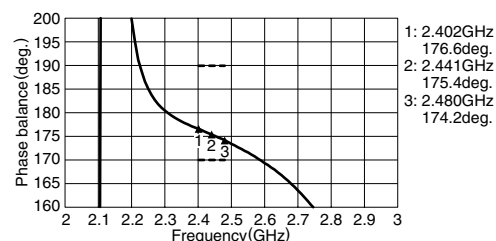
SDS21 ATTENUATION[100 Ω REFERENCE]



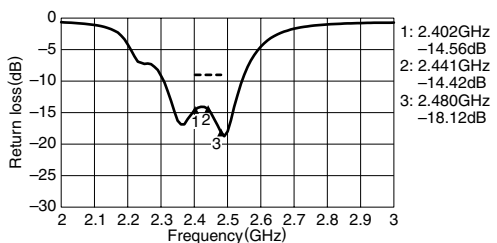
AMPLITUDE BALANCE



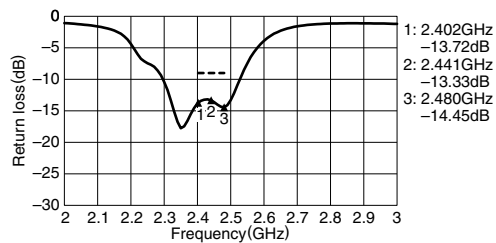
PHASE BALANCE



SSS11 UNBALANCE RETURN LOSS



SDD22 BALANCE RETURN LOSS

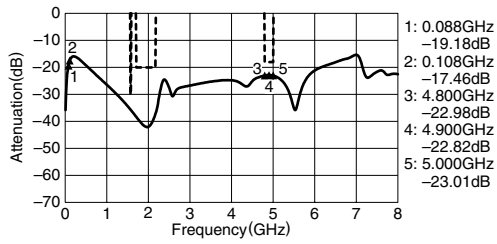


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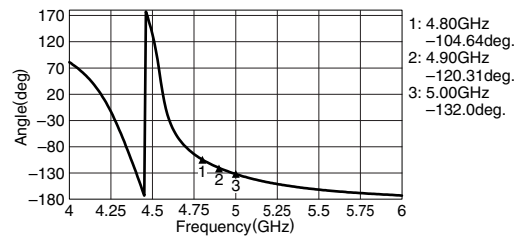
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 25+j30Ω

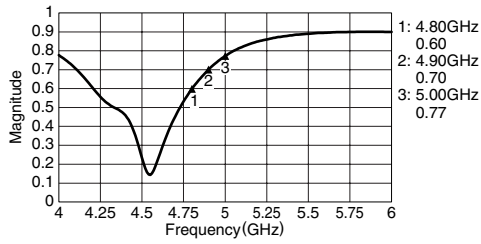
SCS21 ATTENUATION[25Ω REFERENCE]



SCC22 ANGLE[25Ω REFERENCE]



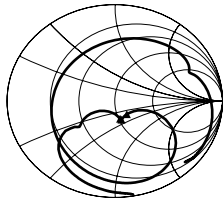
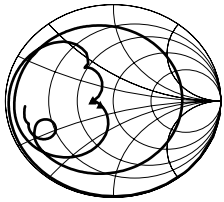
SCC22 MAGNITUDE[25Ω REFERENCE]



SMITH CHARTS

S11

SDD22

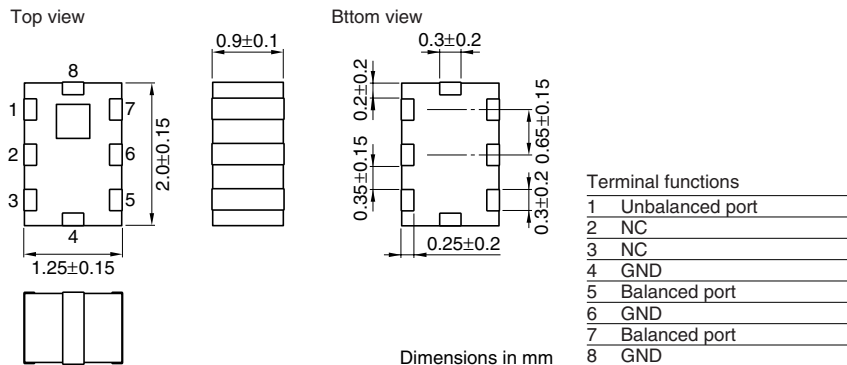


Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

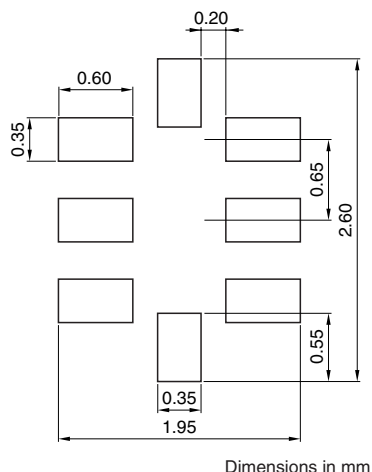
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202350BT-7196A1

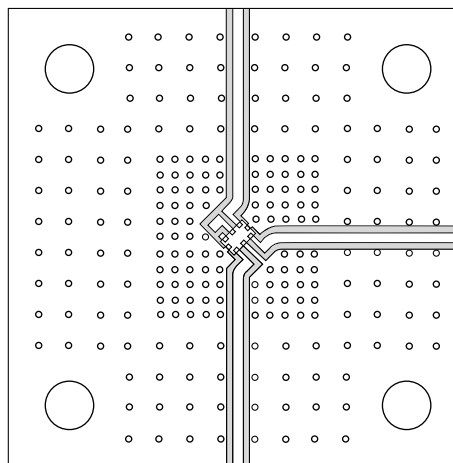
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



EVALUATION BOARD



Port extension value is 139.56ps for all port.

ELECTRICAL CHARACTERISTICS

Item	Typical value		
Frequency range(Pass band)	2300 to 2400MHz		
Insertion loss	[+25°C]	2.2dB max.	1.76dB
	[-40 to +85°C]	2.5dB max.	—
Single ended port characteristic impedance	50Ω (Nominal)		
Balanced port differential characteristics impedance	100dB		
Attenuation	[500 to 1000MHz]	34dB min.	44.3dB
	[1000 to 1785MHz]	26dB min.	31.6dB
	[1785 to 1880MHz]	25dB min.	34.9dB
	[1880 to 1980MHz]	15dB min.	22.6dB
	[2720 to 5900MHz]	10dB min.	13.2dB
Single ended return loss	[2300 to 2400MHz]	—	17dB
Phase difference at balanced port	[2300 to 2400MHz]	—	185.1deg.
Amplitude imbalance at balanced port	[2300 to 2400MHz]	—	0.13dB
Temperature range	Operating	-40 to +85°C	
	Storage	-40 to +85°C	

• Ta:+25°C

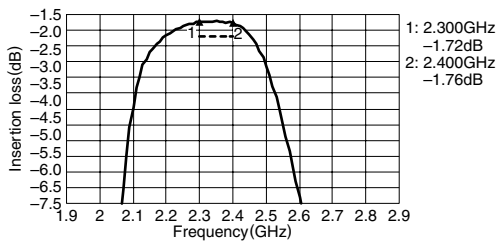
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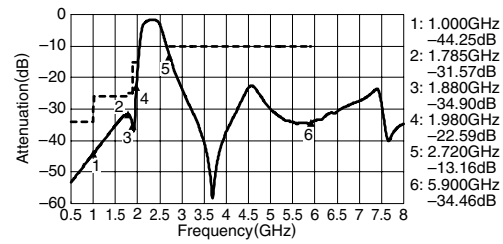
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 100Ω

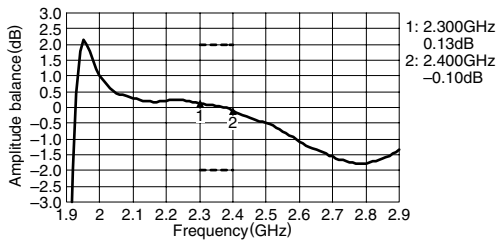
SDS21 INSERTION LOSS



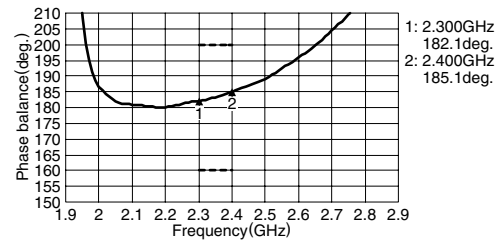
SDS21 ATTENUATION



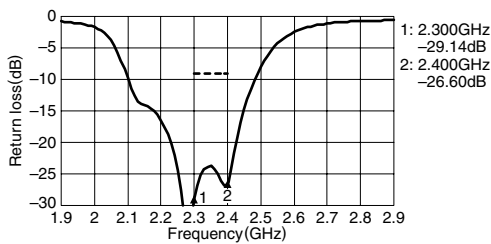
AMPLITUDE BALANCE



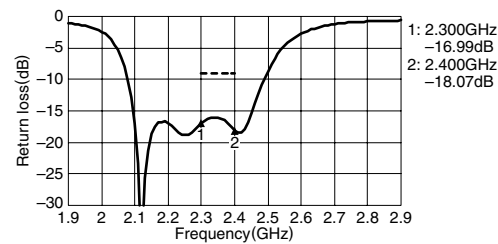
PHASE BALANCE



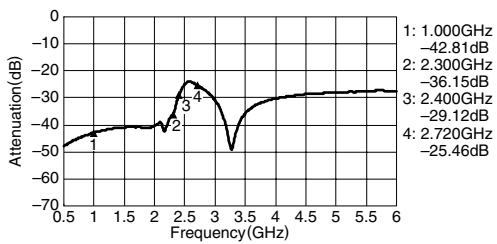
S11 UNBALANCE RETURN LOSS



SDD22 BALANCE RETURN LOSS



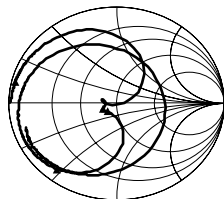
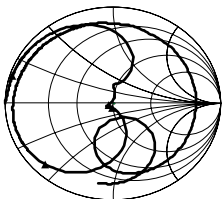
SCS21



SMITH CHARTS

S11

SDD22



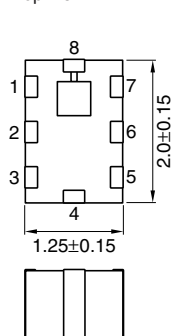
Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

For Bluetooth & 2.4GHz W-LAN

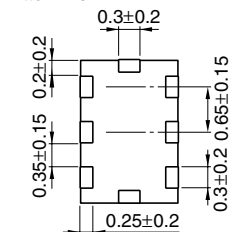
DEA Series DEA202450BT-7077A1

SHAPES AND DIMENSIONS

Top view



Bottom view

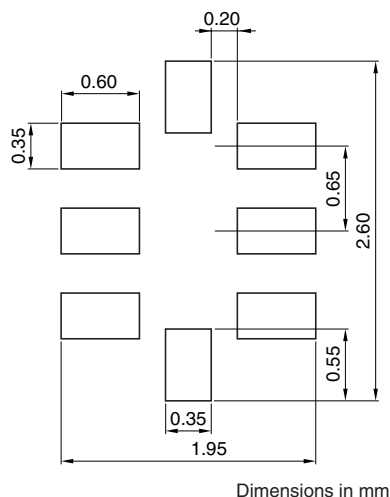


Dimensions in mm

Terminal functions

1	Unbalanced port
2	DC feed + RF GND or GND
3	NC
4	GND
5	Balanced port
6	GND
7	Balanced port
8	GND

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

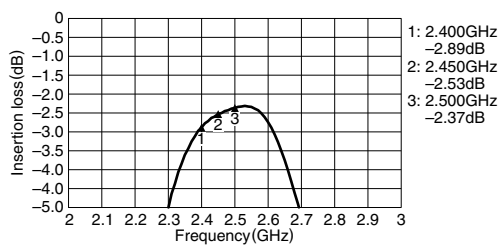
Frequency range(Pass band)		2400MHz	2500MHz
Insertion loss	[+25°C]	—	3.5dB max.
	[−40 to +85°C]	—	3.8dB max.
Single ended port characteristic impedance		50Ω (Nominal)	—
Balanced port differential characteristics impedance		34+j72Ω (Nominal)	—
Attenuation	[880 to 960MHz]	40dB	—
	[1710 to 1880MHz]	38dB	—
	[1880 to 1990MHz]	38dB	—
	[2110 to 2170MHz]	17dB	—
	[4800 to 5000MHz]	25dB	—
	[7200 to 7500MHz]	27dB	—
Single ended return loss		9.0dB	—
Balanced return loss		9.0dB	—
Phase difference at balanced port		170deg.	190deg.
Amplitude imbalance at balanced port		−1.0dB	1.0dB
Temperature range	Operating	−40 to +85°C	
	Storage	−40 to +85°C	

• Ta: +25°C

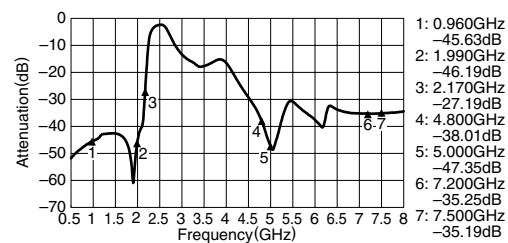
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 34+j72Ω

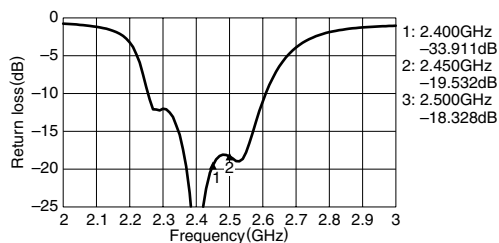
SDS21 INSERTION LOSS



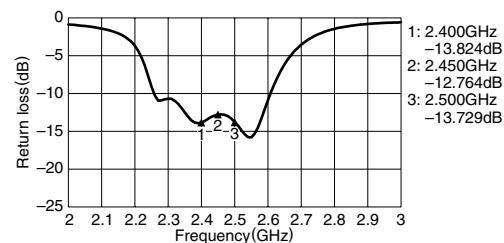
SDS21 ATTENUATION



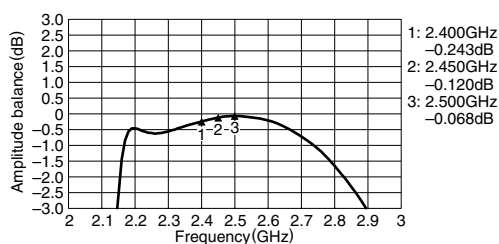
S11 UNBALANCE RETURN LOSS



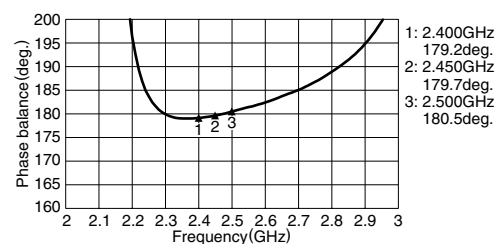
SDD22 BALANCE RETURN LOSS



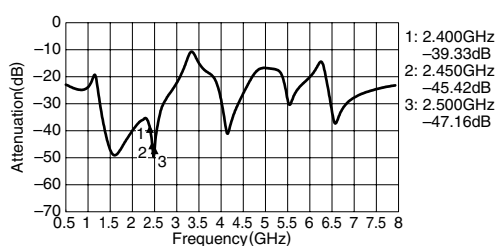
AMPLITUDE BALANCE



PHASE BALANCE



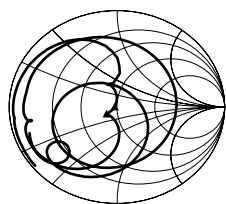
SCS21 CMRR



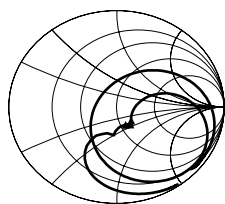
• All specifications are subject to change without notice.

SMITH CHARTS

S11



SDD22

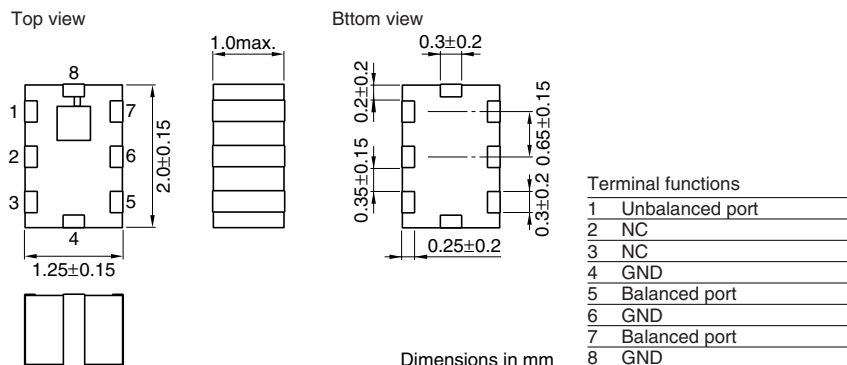


Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

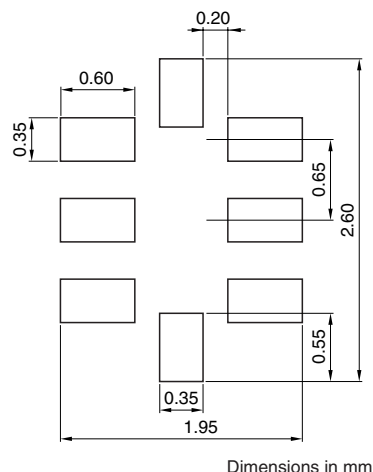
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202450BT-7089C3

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Item	Typical value		
Frequency range(Pass band)	2400 to 2500MHz		
Insertion loss	[+25°C]	3.4dB max.	2.95dB
	[-40 to +85°C]	3.7dB max.	—
Single ended port characteristic impedance	50Ω (Nominal)		
Balanced port differential characteristics impedance	55+j50Ω (Nominal)		
Attenuation	[10 to 915MHz]	40dB min.	46dB
	[925 to 960MHz]	39dB min.	45dB
	[1570 to 1580MHz]	30dB min.	44dB
	[1710 to 1785MHz]	39dB min.	47dB
	[1805 to 1880MHz]	25dB min.	55dB
	[1850 to 1910MHz]	38dB min.	51dB
	[1920 to 1990MHz]	33dB min.	48dB
	[2112 to 2168MHz]	20dB min.	31dB
	[4800 to 5000MHz]	26dB min.	38dB
	[7200 to 7500MHz]	26dB min.	35dB
Single ended return loss	[2400 to 2500MHz]	8.5dB min.	13dB
Balanced return loss	[2400 to 2500MHz]	8.5dB min.	14dB
Phase difference at balanced port	[2400 to 2500MHz]	180±10deg.	183deg.
Amplitude imbalance at balanced port	[2400 to 2500MHz]	0±2.0dB	-0.5dB
Temperature range	Operating	-40 to +85°C	
	Storage	-40 to +85°C	

• Ta: +25°C

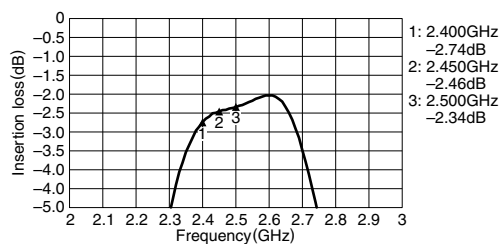
• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

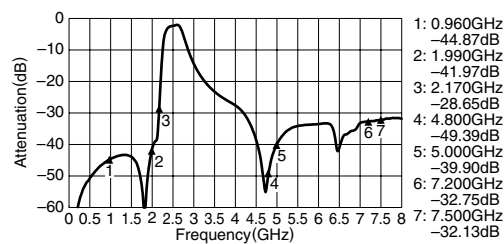
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 55+j50Ω

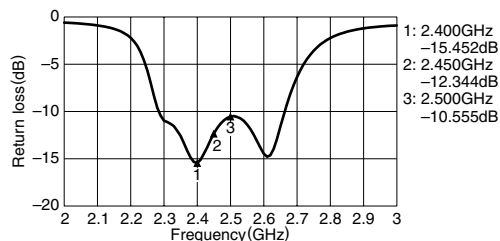
SDS21 INSERTION LOSS



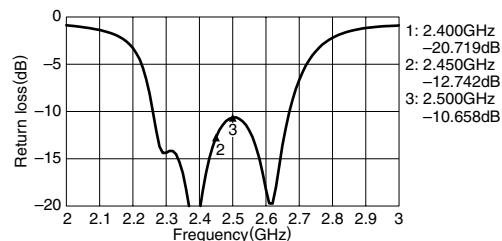
SDS21 ATTENUATION



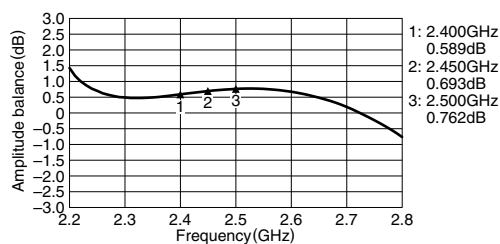
S11 UNBALANCE RETURN LOSS



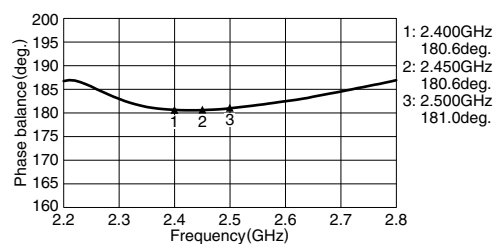
SDD22 BALANCE RETURN LOSS



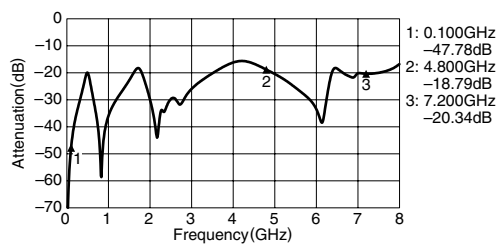
AMPLITUDE BALANCE



PHASE BALANCE



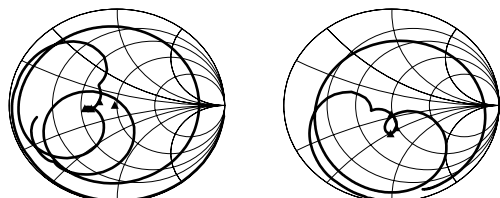
SCS21 CMRR



SMITH CHARTS

S11

SDD22



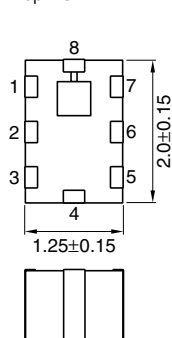
Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

For Bluetooth & 2.4GHz W-LAN

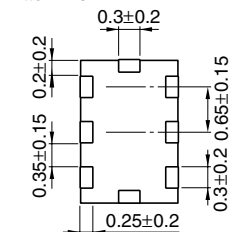
DEA Series DEA202450BT-7112B1

SHAPES AND DIMENSIONS

Top view



Bottom view

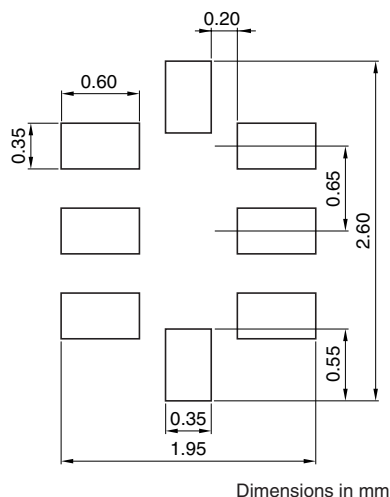


Dimensions in mm

Terminal functions

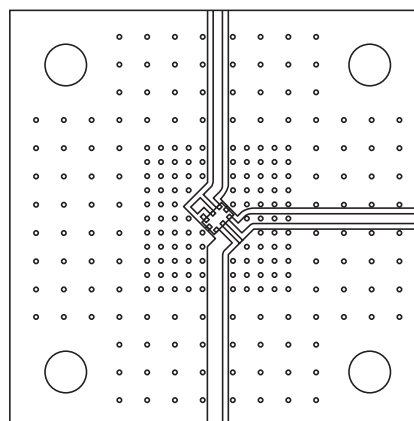
1	Unbalanced port
2	NC
3	NC
4	GND
5	Balanced port
6	GND
7	Balanced port
8	GND

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

EVALUATION BOARD



Port extension value is 139.56ps for all port.

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

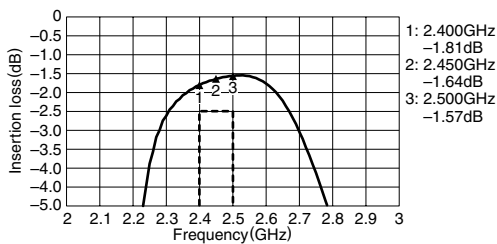
Frequency range(Pass band)		2400MHz	2500MHz
Insertion loss	[+25°C]	—	2.5dB max.
	[−40 to +85°C]	—	2.8dB max.
Single ended port characteristic impedance		50Ω (Nominal)	—
Balanced port differential characteristics impedance		50+j40Ω (Nominal)	—
Attenuation	[10 to 915MHz]	41dB	—
	[925 to 960MHz]	34dB	—
	[1570 to 1580MHz]	30dB	—
	[1710 to 1785MHz]	40dB	—
	[1805 to 1880MHz]	26dB	—
	[1850 to 1910MHz]	40dB	—
	[1920 to 1990MHz]	31dB	—
	[4800 to 5000MHz]	25dB	—
Single ended return loss		[2400 to 2500MHz] 9dB	—
Balanced return loss		[2400 to 2500MHz] 9dB	—
Phase difference at balanced port		[2400 to 2500MHz] 170deg.	190deg.
Amplitude imbalance at balanced port		[2400 to 2500MHz] −2dB	2dB
Common mode attenuation	[88 to 108MHz]	15dB	—
	[4800 to 5000MHz]	18dB	—
Common mode impedance [4900MHz]	Magnitude	0.6	—
	Angle	−45deg.	12deg.
Temperature range	Operating	−40 to +85°C	—
	Storage	−40 to +85°C	—

• Ta: +25°C

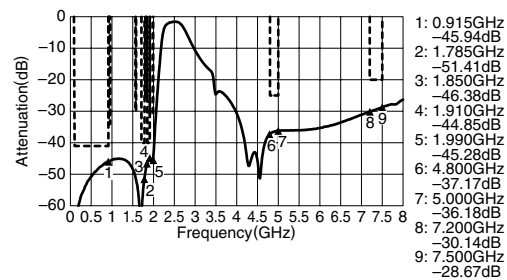
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

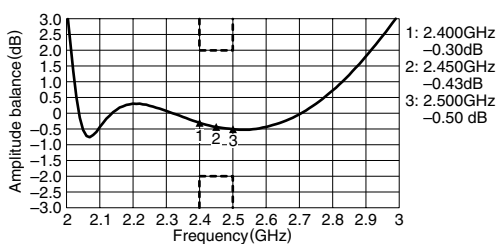
SDS21 INSERTION LOSS



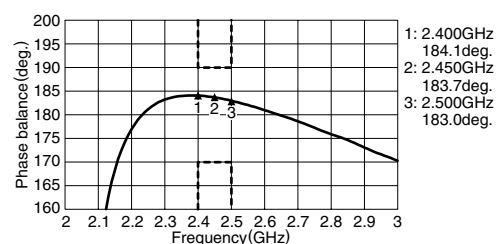
SDS21 ATTENUATION



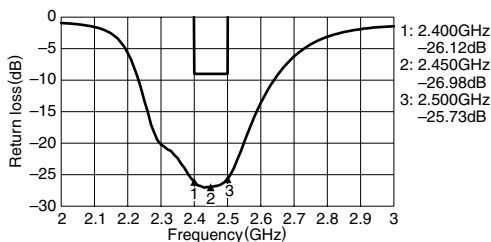
AMPLITUDE BALANCE



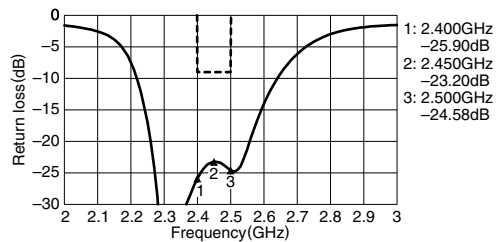
PHASE BALANCE



S11 UNBALANCE RETURN LOSS



SDD22 BALANCE RETURN LOSS

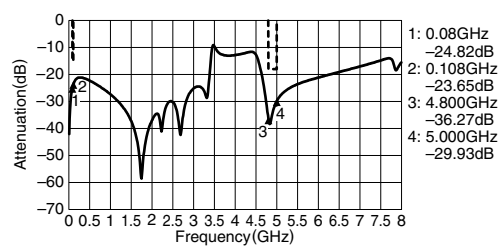


• All specifications are subject to change without notice.

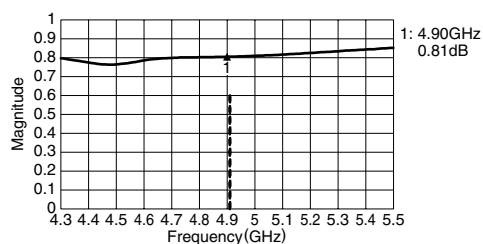
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

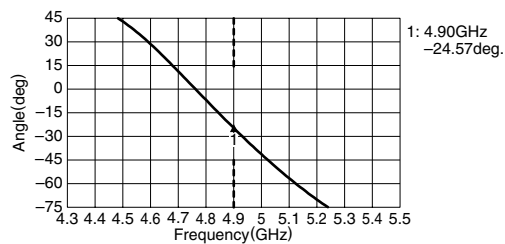
SCS21



SCC22 MAGNITUDE



SCC22 ANGLE

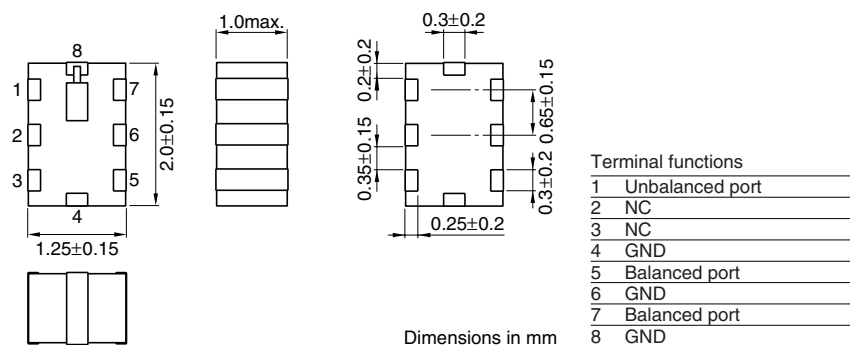


Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

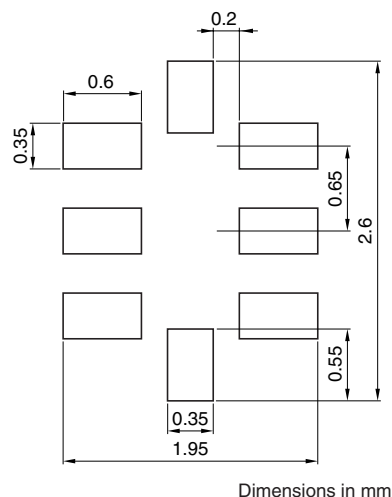
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202450BT-7112E1

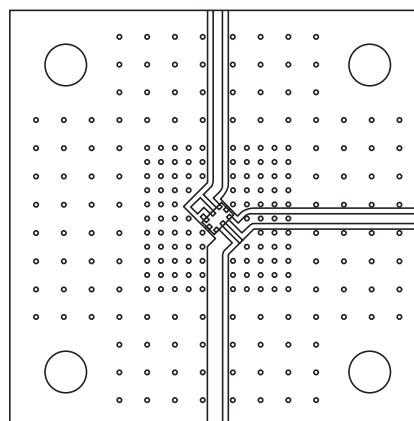
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



EVALUATION BOARD



Port extension value is 139.56ps for all port.

- **Conformity to RoHS Directive:** This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

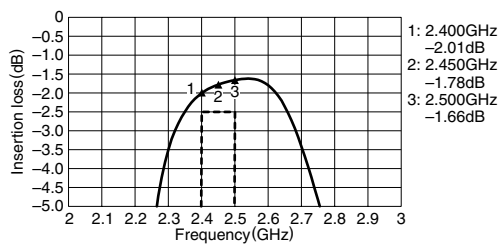
Item			Minimum value	Typical value	Maximum value
Frequency range(Pass band)		(MHz)	2400	—	2500
Insertion loss	[+25°C]	(dB)	—	—	2.5
	[-40 to +85°C]	(dB)	—	—	2.8
Single ended port characteristic impedance		(Ω)	50[Nominal]		
Balanced port differential characteristics impedance		(Ω)	50+j40		
Attenuation	[10 to 915MHz]	(dB)	41	—	—
	[925 to 960MHz]	(dB)	34	—	—
	[1570 to 1580MHz]	(dB)	30	—	—
	[1710 to 1785MHz]	(dB)	40	—	—
	[1805 to 1880MHz]	(dB)	26	—	—
	[1850 to 1910MHz]	(dB)	40	—	—
	[1920 to 1990MHz]	(dB)	31	—	—
	[4800 to 5000MHz]	(dB)	25	—	—
	[7200 to 7500MHz]	(dB)	20	—	—
Single ended return loss	[2400 to 2500MHz]	(dB)	9	—	—
Balanced return loss	[2400 to 2500MHz]	(dB)	9	—	—
Phase difference at balanced port	[2400 to 2500MHz]	(deg.)	170	—	190
Amplitude imbalance at balanced port	[2400 to 2500MHz]	(dB)	-2	—	2
Common mode attenuation	[88 to 108MHz]	(dB)	15	—	—
	[4800 to 5000MHz]	(dB)	18	—	—
Common mode impedance [4900MHz]	Magnitude		0.6	—	—
	Angle	(deg.)	15	—	75
Power capacity		(mW)	—	—	500
Temperature range	Operating	(°C)	-40	—	+85
	Storage	(°C)	-40	—	+85

• Ta: +25°C

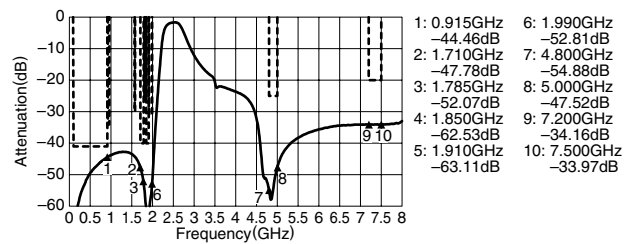
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

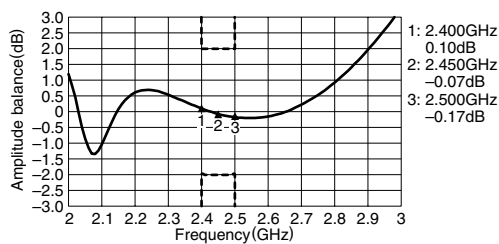
SDS21 INSERTION LOSS



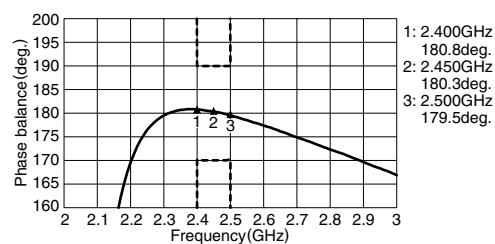
SDS21 ATTENUATION



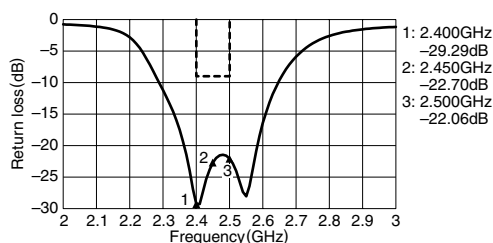
AMPLITUDE BALANCE



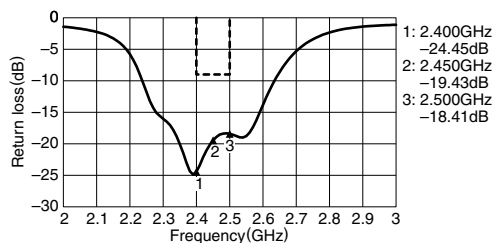
PHASE BALANCE



S11 UNBALANCE RETURN LOSS



SDD22 BALANCE RETURN LOSS

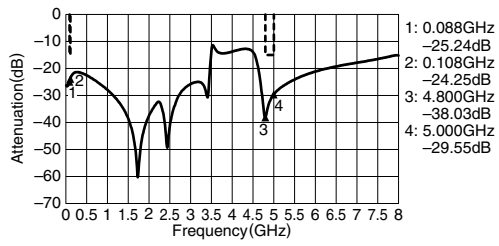


• All specifications are subject to change without notice.

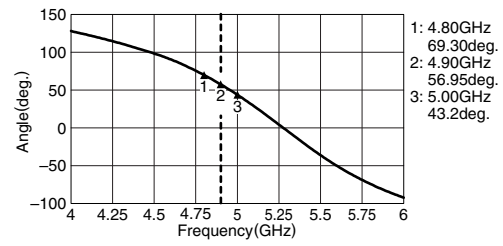
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

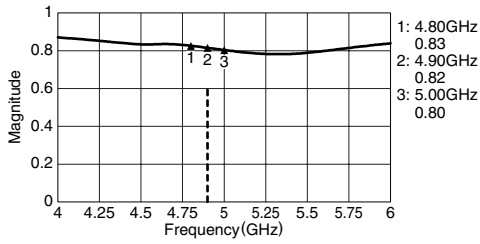
SCS21 ATTENUATION



SCC22 ANGLE

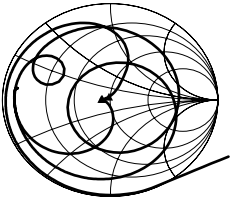


SCC22 MAGNITUDE

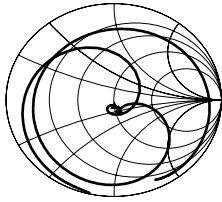


SMITH CHARTS

S11



SDD22



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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