



Multilayer Diplexer

For 791-2690MHz / 4900-5950MHz

DPX165950DT-8030D1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]

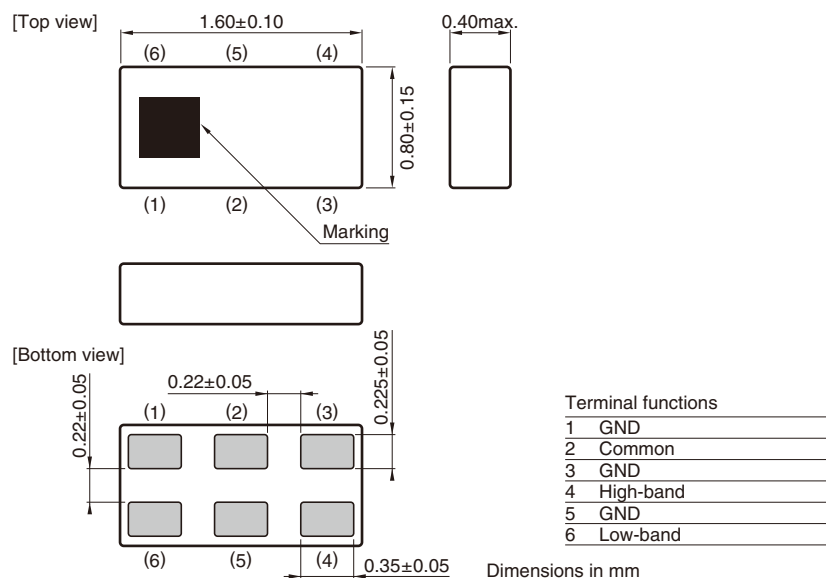
Multilayer Diplexer

Conformity to RoHS Directive

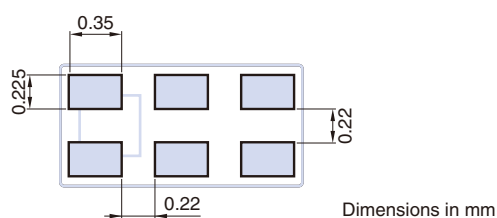
For 791-2690MHz / 4900-5950MHz

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SHAPES AND DIMENSIONS



RECOMMENDED LAND PATTERN



○ RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://product.tdk.com/en/environment/rohs/>

- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

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ELECTRICAL CHARACTERISTICS

LOW-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	791 to 2690	—	0.43	0.50
	791 to 2690	—	—	0.70 (−40 to +85°C)
Return Loss (dB)	791 to 2690	17.69	20.3	—
	4800 to 5150	20	25	—
Attenuation (dB)	5150 to 5850	30	33	—
	5850 to 6000	20	32	—
	7200 to 7860	20	29	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

HIGH-BAND

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	4900 to 5950	—	0.86	1.0
	4900 to 5950	—	—	1.2 (−40 to +85°C)
Return Loss (dB)	4900 to 5150	9.54	18.9	—
	5150 to 5850	11.73	14.8	—
	5850 to 5950	9.54	14.0	—
Attenuation (dB)	800 to 2500	28	31	—
	2570 to 2620	38	43	—
	3450	10	20	—
	3900	6	11	—
	7250	1	3	—
	7800	4	7	—
	9800 to 11900	20	27	—
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

COMMON

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Return Loss (dB)	791 to 2690	13.98	19.1	—
	4900 to 5150	9.54	21.1	—
	5150 to 5850	13.98	15.7	—
	5850 to 5950	9.54	15.1	—
Isolation (dB)	800 to 2500	28	31	—
	2570 to 2620	34	39	—
	5150 to 5850	30	35	—
Power Handling (W)		—	—	1
Characteristic Impedance (Ω)			50 (Nominal)	

• Ta: +25±5°C

TEMPERATURE RANGE

Operating temperature (°C)	Storage temperature (°C)
−40 to +85	−40 to +85

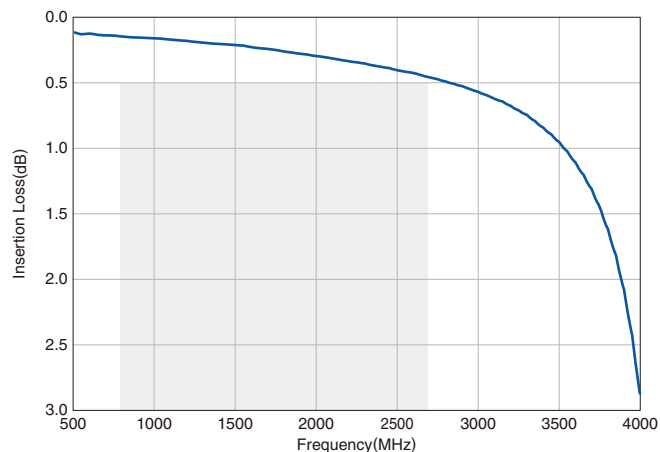
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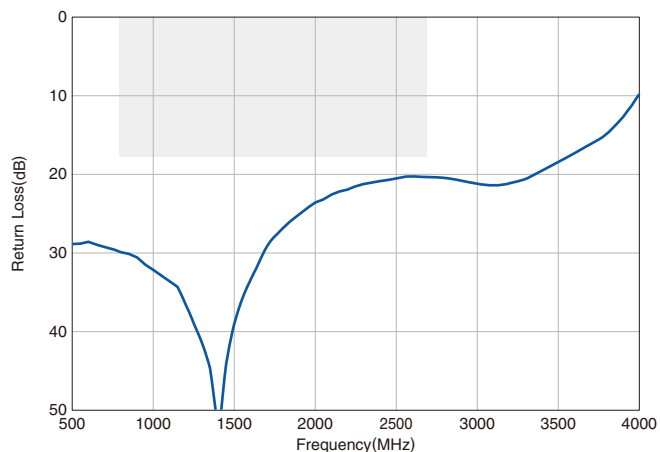
FREQUENCY CHARACTERISTICS

LOW-BAND

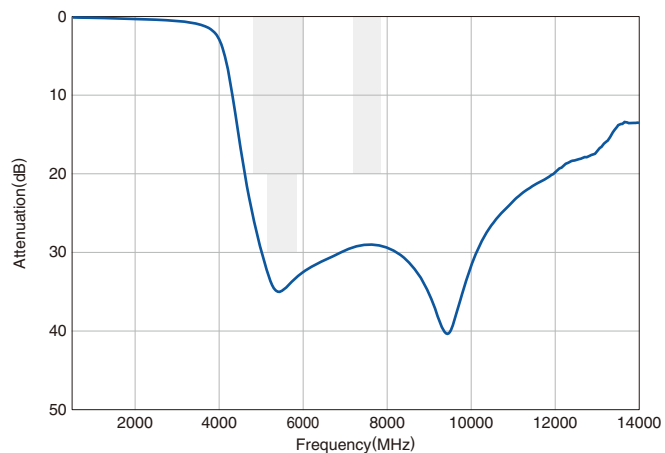
Insertion Loss



Return Loss

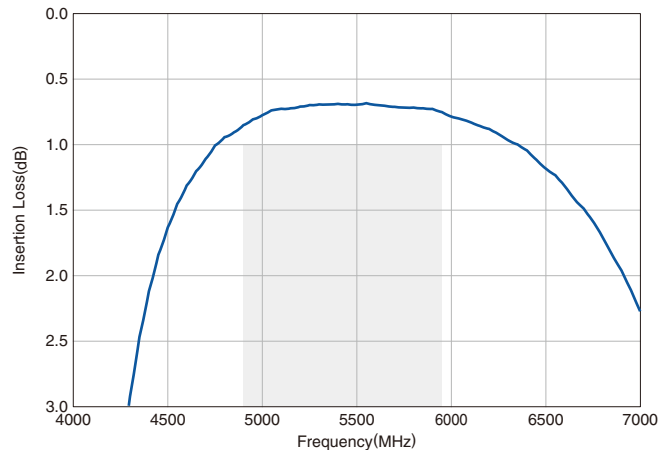


Attenuation

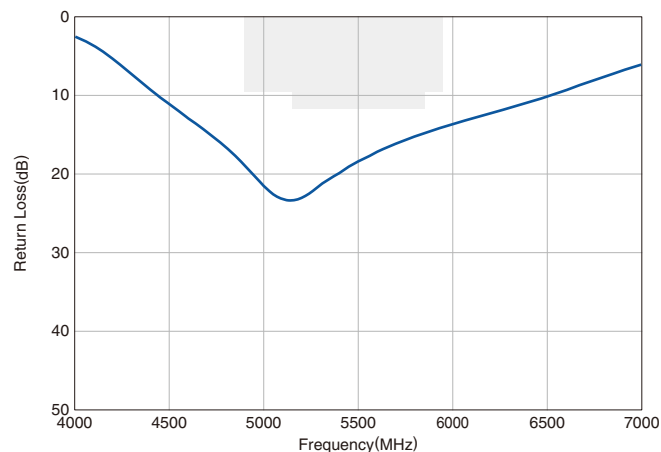


HIGH-BAND

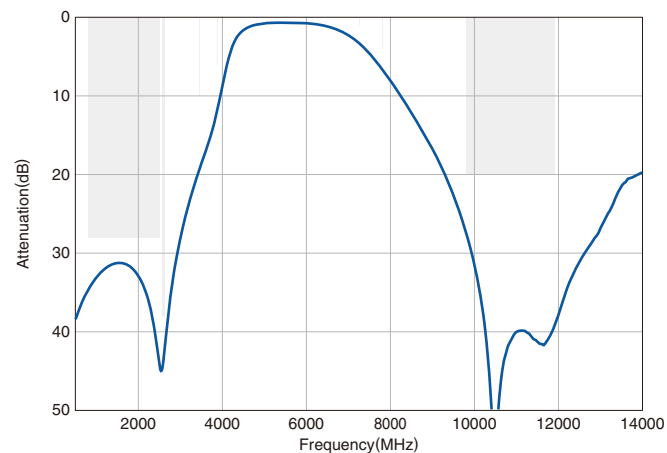
Insertion Loss



Return Loss



Attenuation



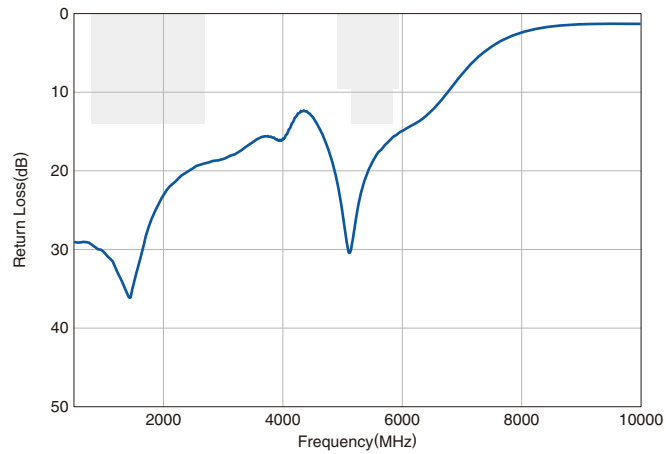
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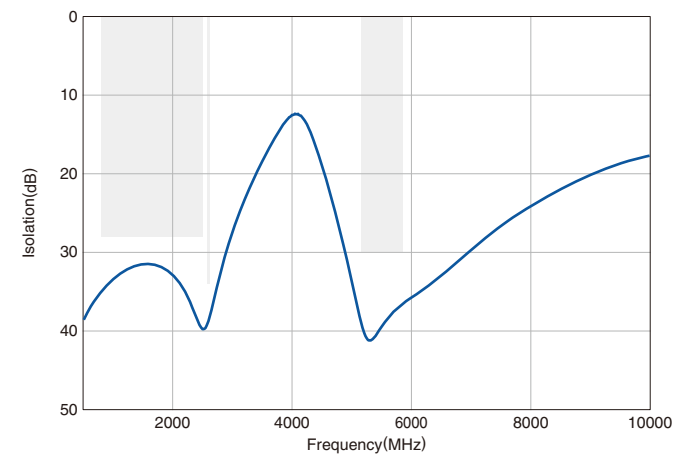
FREQUENCY CHARACTERISTICS

COMMON

Return Loss



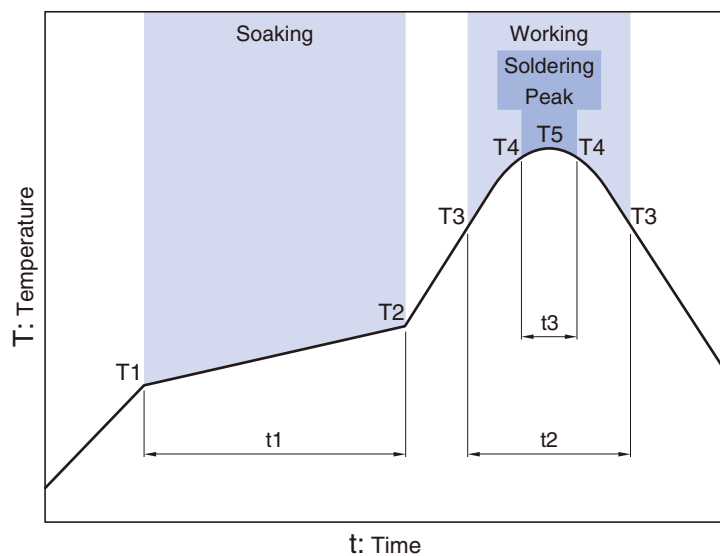
Isolation



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RECOMMENDED REFLOW PROFILE



Soaking			Working		Soldering Peak		
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120s	230°C	more than 30s	247 to 253°C	within 10s	260°C max.

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REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

REMINDERS

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this catalog.

- | | |
|---|--|
| (1) Aerospace/Aviation equipment | (8) Public information-processing equipment |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (9) Military equipment |
| (3) Medical equipment | (10) Electric heating apparatus, burning equipment |
| (4) Power-generation control equipment | (11) Disaster prevention/crime prevention equipment |
| (5) Atomic energy-related equipment | (12) Safety equipment |
| (6) Seabed equipment | (13) Other applications that are not considered general-purpose applications |
| (7) Transportation control equipment | |

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.

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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