

3-terminal filters

For power line

Feed through filter



YFF-P series



FEATURES

- Reduction in ESR, ESL and impedance due to the feed-through structure
- Superior attenuation characteristic in wide bandwidth
- Contributes to reduction in the number of decoupling MLCCs
- Available for large current (2 to 6A)

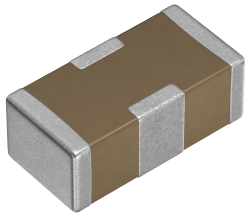
APPLICATION

- EMC countermeasures and decoupling applications in power lines for communication terminal devices such as smartphones, AV and information devices

PART NUMBER CONSTRUCTION

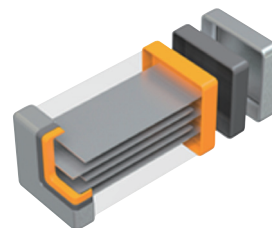
YFF	21	PC		1A	475		M	T		00	□	N		
Series name	L x W dimensions Code mm	Product identification code		Rated voltage		Nominal capacitance		Capacitance tolerance		Packaging style		TDK internal code	Reel size	TDK internal code
15	1.0x0.5	PC	Standard type	0G	4V	104	100,000pF	M	±20%	T	Taping		0 ø178mm	N Internal electrodeNi
18	1.6x0.8	PH	Thickness 0.8mm	0J	6.3V	105	1,000,000pF (1.0μF)						9 ø330mm	E Internal electrodeNi
21	2.0x1.2	PW	Low ESL type	1A	10V	435	4,300,000pF (4.3μF)							
31	3.2x1.6			1C	16V	226	22,000,000pF (22μF)							

PRODUCT APPEARANCE



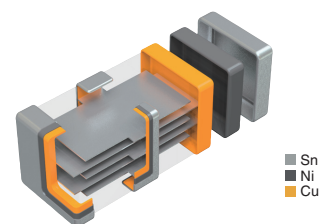
PRODUCT STRUCTURE

MLCC



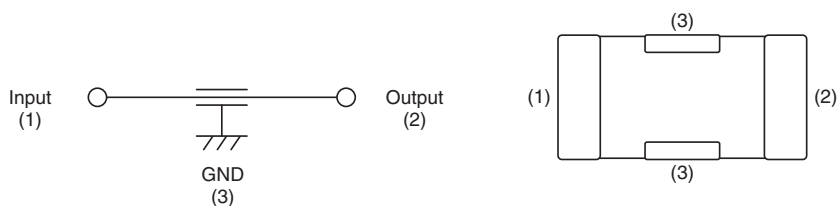
Internal electrodes are not conducting between terminal electrodes

YFF series



Feed-through structure that direct current passes inside the component

EQUIVALENT CIRCUIT



YFF15PC type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Insertion loss	Rated voltage	Rated current	DC resistance(Max.)	Operating temperature range	Storage temperature range	Catalog part numbers
40dB bandwidth (MHz)	Edc (V)	Idc (A)	Rdc (mΩ)	(°C)	(After mount) (°C)	
0.3 to 3500	4	2	12	-55 to +85	-55 to +85	YFF15PC0G435MT000N
0.3 to 3500	4	2	12	-55 to +85	-55 to +85	YFF15PC0G435MT009N
1 to 2400	6.3	2	30	-55 to +125	-55 to +125	YFF15PC0J105MT0A0E
1 to 3500	6.3	3	12	-55 to +105	-55 to +105	YFF15PC0J105MT000N
1 to 3500	6.3	3	12	-55 to +105	-55 to +105	YFF15PC0J105MT009N
1 to 3500	4	3	12	-55 to +105	-55 to +105	YFF15PC0G105MT000N
1 to 3500	4	3	12	-55 to +105	-55 to +105	YFF15PC0G105MT009N
2 to 3000	6.3	3	30	-55 to +105	-55 to +105	YFF15PC0J474MT000N
2 to 3000	6.3	3	30	-55 to +105	-55 to +105	YFF15PC0J474MT009N
4 to 2000	35	2	45	-55 to +125	-55 to +125	YFF15PC1V224MT000N
4 to 2400	10	3	30	-55 to +105	-55 to +105	YFF15PC1A224MT000N
4 to 2400	10	3	30	-55 to +105	-55 to +105	YFF15PC1A224MT009N
8 to 1500	16	3	30	-55 to +105	-55 to +105	YFF15PC1C104MT000N
8 to 1500	16	3	30	-55 to +105	-55 to +105	YFF15PC1C104MT009N

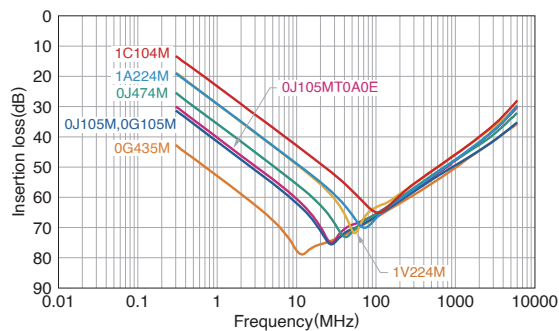
Click the part number for details.

The rated current depends on the operating temperature. For details, refer to RATED CURRENT DERATING graph below.

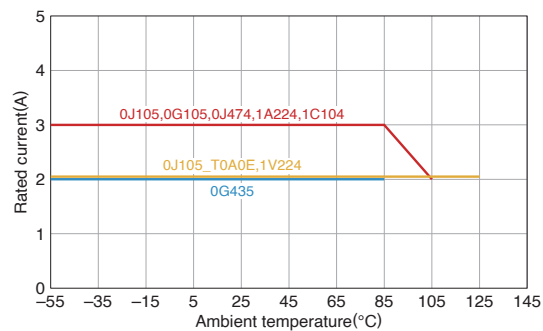
The maximum operating temperature includes capacitor self-heating of up to 20°C.

ELECTRICAL CHARACTERISTICS GRAPH

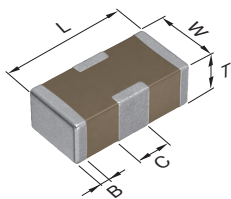
INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



RATED CURRENT DERATING

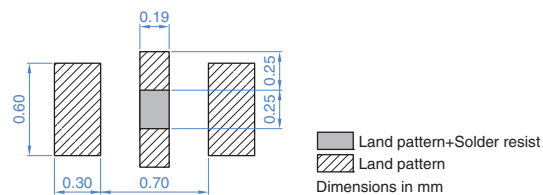


SHAPE & DIMENSIONS



L	Body length
W	Body width
T	Body height
B	Terminal width
C	GND Terminal width

RECOMMENDED LAND PATTERN



Connect GND terminals and GND of circuit boards by using such as through-holes so that the distance between them becomes the shortest.

L (mm)	W (mm)	T (mm)	B (mm)	C (mm)	Reel size (mm)	Package quantity (pcs./reel)	Catalog part numbers
1.05±0.05	0.65±0.05	0.45±0.05	0.09 min.	0.30±0.10	ø178	10,000	YFF15PC0G435MT000N
1.05±0.05	0.65±0.05	0.45±0.05	0.09 min.	0.30±0.10	ø330	50,000	YFF15PC0G435MT009N
1.00±0.20	0.50±0.20	0.40±0.10	0.18±0.10	0.30±0.10	ø178	10,000	YFF15PC0J105MT0A0E
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø178	10,000	YFF15PC0J105MT000N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø330	50,000	YFF15PC0J105MT009N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø178	10,000	YFF15PC0G105MT000N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø330	50,000	YFF15PC0G105MT009N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø178	10,000	YFF15PC0J474MT000N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø330	50,000	YFF15PC0J474MT009N
1.00±0.20	0.50±0.20	0.40±0.10	0.18±0.10	0.30±0.10	ø178	10,000	YFF15PC1V224MT000N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø178	10,000	YFF15PC1A224MT000N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø330	50,000	YFF15PC1A224MT009N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø178	10,000	YFF15PC1C104MT000N
1.00±0.05	0.55±0.05	0.30±0.05	0.09 min.	0.30±0.10	ø330	50,000	YFF15PC1C104MT009N

Click the part number for details.

⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
Please note that the contents may change without any prior notice due to reasons such as upgrading.

YFF18PC type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Insertion loss	Rated voltage	Rated current	DC resistance(Max.)	Operating temperature range	Storage temperature range	Catalog part numbers
40dB bandwidth (MHz)	Edc (V)	Idc (A)	Rdc (mΩ)	(°C)	(After mount) (°C)	
0.3 to 2000	6.3	4	12	-55 to +85	-55 to +85	YFF18PC0J475MT0H0N
0.3 to 2000	6.3	4	12	-55 to +85	-55 to +85	YFF18PC0J475MT0H9N
1 to 1500	6.3	4	12	-55 to +105	-55 to +105	YFF18PC0J105MT0H0N
1 to 1500	6.3	4	12	-55 to +105	-55 to +105	YFF18PC0J105MT0H9N
1.5 to 2000	6.3	4	30	-55 to +125	-55 to +125	YFF18PC0J474MT0H0N
1.5 to 2000	6.3	4	30	-55 to +125	-55 to +125	YFF18PC0J474MT0H9N
3 to 2500	6.3	4	30	-55 to +125	-55 to +125	YFF18PC0J224MT0H0N
3 to 2500	6.3	4	30	-55 to +125	-55 to +125	YFF18PC0J224MT0H9N
7 to 1500	16	4	30	-55 to +125	-55 to +125	YFF18PC1C104MT0H0N
7 to 1500	16	4	30	-55 to +125	-55 to +125	YFF18PC1C104MT0H9N

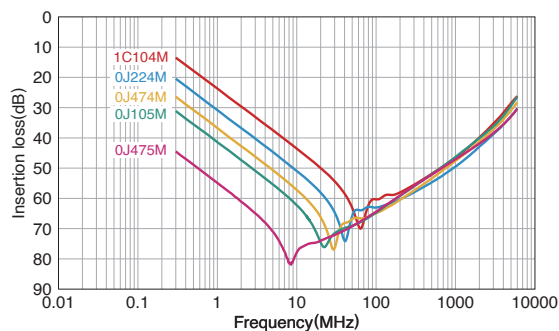
Click the part number for details.

The rated current depends on the operating temperature. For details, refer to RATED CURRENT DERATING graph below.

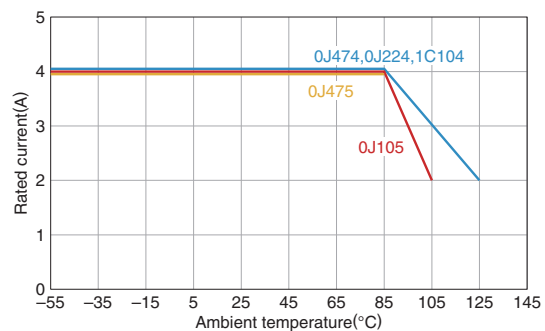
The maximum operating temperature includes capacitor self-heating of up to 20°C.

ELECTRICAL CHARACTERISTICS GRAPH

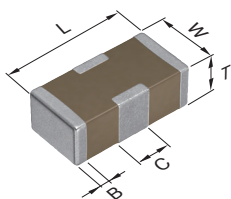
INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



RATED CURRENT DERATING

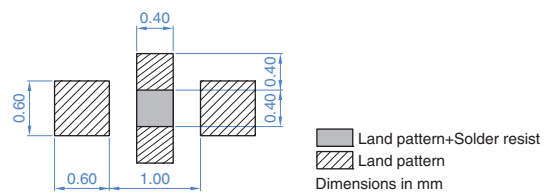


SHAPE & DIMENSIONS



L	Body length
W	Body width
T	Body height
B	Terminal width
C	GND Terminal width

RECOMMENDED LAND PATTERN



Connect GND terminals and GND of circuit boards by using such as through-holes so that the distance between them becomes the shortest.

L (mm)	W (mm)	T (mm)	B (mm)	C (mm)	Reel size (mm)	Package quantity (pcs./reel)	Catalog part numbers
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø178	4,000	YFF18PC0J475MT0H0N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø330	10,000	YFF18PC0J475MT0H9N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø178	4,000	YFF18PC0J105MT0H0N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø330	10,000	YFF18PC0J105MT0H9N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø178	4,000	YFF18PC0J474MT0H0N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø330	10,000	YFF18PC0J474MT0H9N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø178	4,000	YFF18PC0J224MT0H0N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø330	10,000	YFF18PC0J224MT0H9N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø178	4,000	YFF18PC1C104MT0H0N
1.60±0.20	0.80±0.10	0.60±0.10	0.25±0.15	0.40±0.10	ø330	10,000	YFF18PC1C104MT0H9N

Click the part number for details.

YFF18PH type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Insertion loss	Rated voltage	Rated current	DC resistance(Max.)	Operating temperature range	Storage temperature range	Catalog part numbers
40dB bandwidth (MHz)	E _{dc} (V)	I _{dc} (A)	R _{dc} (mΩ)	(°C)	(After mount) (°C)	
0.3 to 1500	6.3	4	10	-55 to +125	-55 to +125	YFF18PH0J106MT00HE
0.4 to 2000	6.3	4	12	-55 to +85	-55 to +85	YFF18PH0J225MT000N
0.4 to 2000	6.3	4	12	-55 to +85	-55 to +85	YFF18PH0J225MT009N
0.7 to 1500	6.3	4	12	-55 to +105	-55 to +105	YFF18PH0J105MT000N
0.7 to 1500	6.3	4	12	-55 to +105	-55 to +105	YFF18PH0J105MT009N

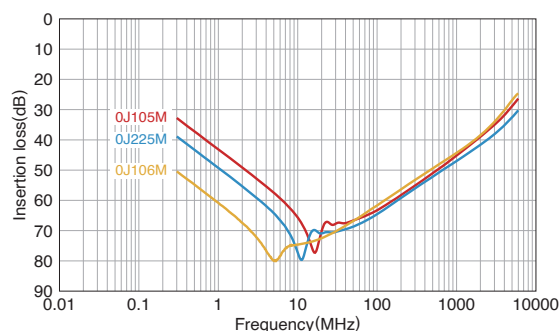
Click the part number for details.

The rated current depends on the operating temperature. For details, refer to RATED CURRENT DERATING graph below.

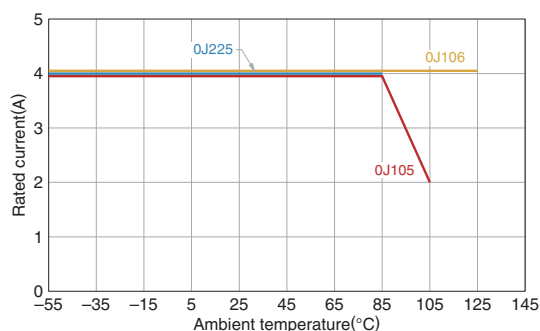
The maximum operating temperature includes capacitor self-heating of up to 20°C.

ELECTRICAL CHARACTERISTICS GRAPH

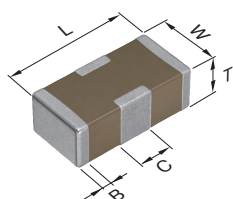
INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



RATED CURRENT DERATING

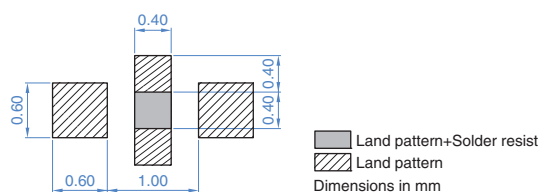


SHAPE & DIMENSIONS



L	Body length
W	Body width
T	Body height
B	Terminal width
C	GND Terminal width

RECOMMENDED LAND PATTERN



Connect GND terminals and GND of circuit boards by using such as through-holes so that the distance between them becomes the shortest.

L (mm)	W (mm)	T (mm)	B (mm)	C (mm)	Reel size (mm)	Package quantity (pcs./reel)	Catalog part numbers
1.60±0.30,-0.10	0.80±0.30,-0.10	0.80±0.30,-0.10	0.25±0.20	0.40±0.20	ø178	3,000	YFF18PH0J106MT00HE
1.60±0.20	0.80±0.10	0.80±0.10	0.25±0.15	0.40±0.10	ø178	4,000	YFF18PH0J225MT000N
1.60±0.20	0.80±0.10	0.80±0.10	0.25±0.15	0.40±0.10	ø330	10,000	YFF18PH0J225MT009N
1.60±0.20	0.80±0.10	0.80±0.10	0.25±0.15	0.40±0.10	ø178	4,000	YFF18PH0J105MT000N
1.60±0.20	0.80±0.10	0.80±0.10	0.25±0.15	0.40±0.10	ø330	10,000	YFF18PH0J105MT009N

Click the part number for details.

YFF18PW type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Insertion loss	Rated voltage	Rated current	DC resistance(Max.)	Operating temperature range	Storage temperature range	Catalog part numbers
40dB bandwidth (MHz)	Edc (V)	Idc (A)	Rdc (mΩ)	(°C)	(After mount) (°C)	
0.3 to 6000	6.3	4	12	-55 to +85	-55 to +85	YFF18PW0J475MT0H0N
0.3 to 6000	6.3	4	12	-55 to +85	-55 to +85	YFF18PW0J475MT0H9N
0.8 to 6000	6.3	4	30	-55 to +105	-55 to +105	YFF18PW0J105MT0H0N
0.8 to 6000	6.3	4	30	-55 to +105	-55 to +105	YFF18PW0J105MT0H9N
2 to 6000	6.3	4	30	-55 to +125	-55 to +125	YFF18PW0J474MT0H0N
2 to 6000	6.3	4	30	-55 to +125	-55 to +125	YFF18PW0J474MT0H9N

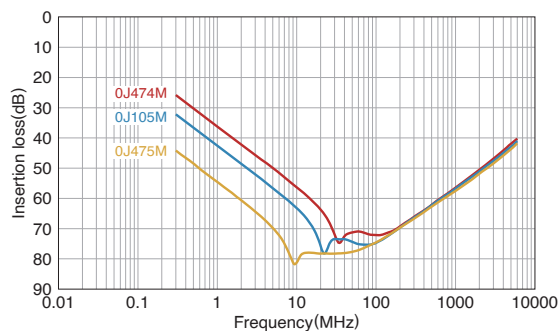
Click the part number for details.

The rated current depends on the operating temperature. For details, refer to RATED CURRENT DERATING graph below.

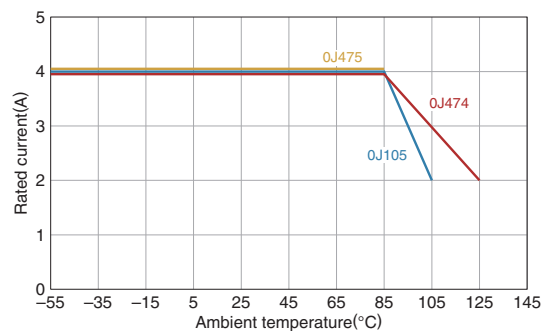
The maximum operating temperature includes capacitor self-heating of up to 20°C.

ELECTRICAL CHARACTERISTICS GRAPH

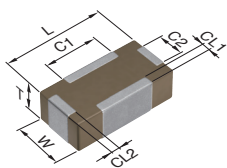
INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



RATED CURRENT DERATING

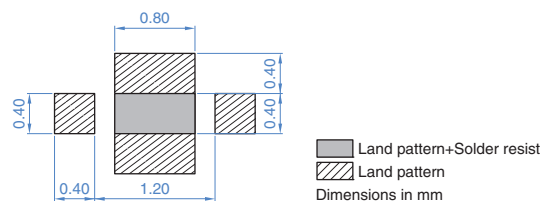


SHAPE & DIMENSIONS



L	Body length
W	Body width
T	Body height
C1	GND Terminal width1
CL1	GND Terminal width2
C2	Terminal width1
CL2	Terminal width2

RECOMMENDED LAND PATTERN



Connect GND terminals and GND of circuit boards by using such as through-holes so that the distance between them becomes the shortest.

L (mm)	W (mm)	T (mm)	C1 (mm)	CL1 (mm)	C2 (mm)	CL2 (mm)	Reel size (mm)	Package quantity (pcs./reel)	Catalog part numbers
1.60±0.10	0.80±0.10	0.60±0.10	0.80+0.20,-0.10	0.15±0.10	0.40±0.10	0.15±0.10	ø178	4,000	YFF18PW0J475MT0H0N
1.60±0.10	0.80±0.10	0.60±0.10	0.80+0.20,-0.10	0.15±0.10	0.40±0.10	0.15±0.10	ø330	10,000	YFF18PW0J475MT0H9N
1.60±0.10	0.80±0.10	0.60±0.10	0.80+0.20,-0.10	0.15±0.10	0.40±0.10	0.15±0.10	ø178	4,000	YFF18PW0J105MT0H0N
1.60±0.10	0.80±0.10	0.60±0.10	0.80+0.20,-0.10	0.15±0.10	0.40±0.10	0.15±0.10	ø330	10,000	YFF18PW0J105MT0H9N
1.60±0.10	0.80±0.10	0.60±0.10	0.80+0.20,-0.10	0.15±0.10	0.40±0.10	0.15±0.10	ø178	4,000	YFF18PW0J474MT0H0N
1.60±0.10	0.80±0.10	0.60±0.10	0.80+0.20,-0.10	0.15±0.10	0.40±0.10	0.15±0.10	ø330	10,000	YFF18PW0J474MT0H9N

Click the part number for details.

YFF21PC type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Insertion loss	Rated voltage	Rated current	DC resistance(Max.)	Operating temperature range	Storage temperature range	Catalog part numbers
40dB bandwidth (MHz)	E _{dc} (V)	I _{dc} (A)	R _{dc} (mΩ)	(°C)	(After mount) (°C)	
0.3 to 2000	6.3	4	5	-55 to +85	-55 to +85	YFF21PC0J226MT000N
0.3 to 2000	6.3	4	5	-55 to +85	-55 to +85	YFF21PC0J226MT009N
0.3 to 1000	10	4	14	-55 to +125	-55 to +125	YFF21PC1A475MT000N
0.7 to 1500	10	4	12	-55 to +85	-55 to +85	YFF21PC1A105MT000N
0.7 to 1500	10	4	12	-55 to +85	-55 to +85	YFF21PC1A105MT009N
1.5 to 1500	16	2	30	-55 to +125	-55 to +125	YFF21PC1C474MT000N
1.5 to 1500	16	2	30	-55 to +125	-55 to +125	YFF21PC1C474MT009N

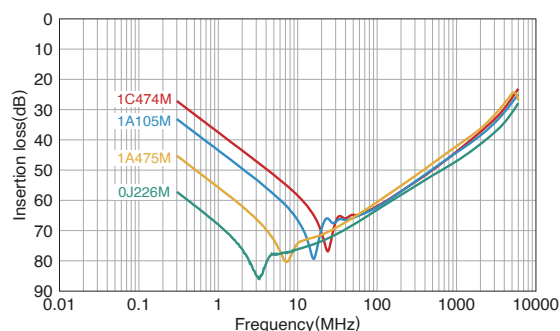
Click the part number for details.

The rated current depends on the operating temperature. For details, refer to RATED CURRENT DERATING graph below.

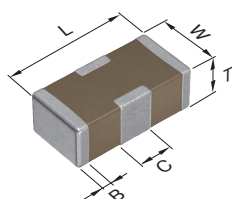
The maximum operating temperature includes capacitor self-heating of up to 20°C.

ELECTRICAL CHARACTERISTICS GRAPH

INSERTION LOSS VS. FREQUENCY CHARACTERISTICS

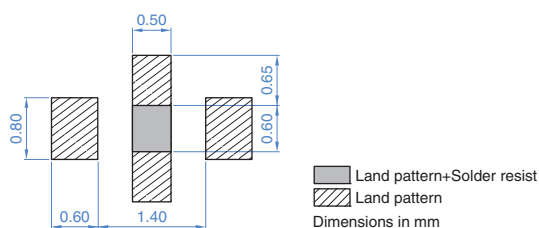


SHAPE & DIMENSIONS



L	Body length
W	Body width
T	Body height
B	Terminal width
C	GND Terminal width

RECOMMENDED LAND PATTERN



Connect GND terminals and GND of circuit boards by using such as through-holes so that the distance between them becomes the shortest.

L (mm)	W (mm)	T (mm)	B (mm)	C (mm)	Reel size (mm)	Package quantity (pcs./reel)	Catalog part numbers
2.00±0.20	1.25±0.20	0.85±0.15	0.30±0.10	0.45±0.15	ø178	4,000	YFF21PC0J226MT000N
2.00±0.20	1.25±0.20	0.85±0.15	0.30±0.10	0.45±0.15	ø330	10,000	YFF21PC0J226MT009N
2.00±0.20	1.25±0.20	0.85±0.15	0.30±0.20	0.50+0.30,-0.20	ø178	4,000	YFF21PC1A475MT000N
2.00±0.20	1.25±0.20	0.85±0.15	0.30±0.10	0.45±0.15	ø178	4,000	YFF21PC1A105MT000N
2.00±0.20	1.25±0.20	0.85±0.15	0.30±0.10	0.45±0.15	ø330	10,000	YFF21PC1A105MT009N
2.00±0.20	1.25±0.20	0.85±0.15	0.30±0.10	0.45±0.15	ø178	4,000	YFF21PC1C474MT000N
2.00±0.20	1.25±0.20	0.85±0.15	0.30±0.10	0.45±0.15	ø330	10,000	YFF21PC1C474MT009N

Click the part number for details.

YFF31PC type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

Insertion loss	Rated voltage	Rated current	DC resistance(Max.)	Operating temperature range	Storage temperature range	Catalog part numbers
40dB bandwidth (MHz)	Edc (V)	Idc (A)	Rdc (mΩ)	(°C)	(After mount) (°C)	
0.3 to 1000	6.3	6	5	-55 to +125	-55 to +125	YFF31PC0J226MTJ00N
0.7 to 1000	16	2	40	-55 to +125	-55 to +125	YFF31PC1C105MT000N
0.7 to 1000	16	2	40	-55 to +125	-55 to +125	YFF31PC1C105MT009N
1.5 to 1000	16	2	40	-55 to +125	-55 to +125	YFF31PC1C474MT000N
1.5 to 1000	16	2	40	-55 to +125	-55 to +125	YFF31PC1C474MT009N
3 to 800	16	2	40	-55 to +125	-55 to +125	YFF31PC1C224MT000N
3 to 800	16	2	40	-55 to +125	-55 to +125	YFF31PC1C224MT009N

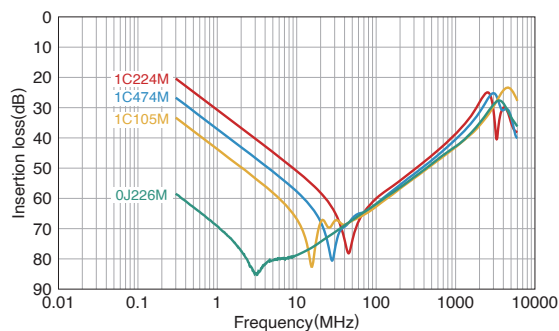
Click the part number for details.

The rated current depends on the operating temperature. For details, refer to RATED CURRENT DERATING graph below.

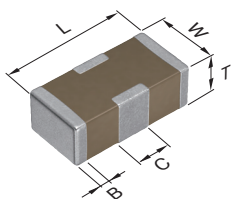
The maximum operating temperature includes capacitor self-heating of up to 20°C.

ELECTRICAL CHARACTERISTICS GRAPH

INSERTION LOSS VS. FREQUENCY CHARACTERISTICS

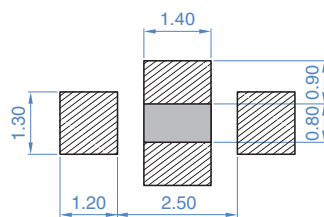


SHAPE & DIMENSIONS



L	Body length
W	Body width
T	Body height
B	Terminal width
C	GND Terminal width

RECOMMENDED LAND PATTERN



Land pattern+Solder resist
Land pattern
Dimensions in mm

Connect GND terminals and GND of circuit boards by using such as through-holes so that the distance between them becomes the shortest.

L (mm)	W (mm)	T (mm)	B (mm)	C (mm)	Reel size (mm)	Package quantity (pcs./reel)	Catalog part numbers
3.20±0.20	1.60±0.20	1.30±0.20	0.40±0.30	1.10±0.40	ø178	2,000	YFF31PC0J226MTJ00N
3.20±0.20	1.60±0.20	1.30±0.20	0.40±0.30	0.95±0.25	ø178	2,000	YFF31PC1C105MT000N
3.20±0.20	1.60±0.20	1.30±0.20	0.40±0.30	0.95±0.25	ø330	10,000	YFF31PC1C105MT009N
3.20±0.20	1.60±0.20	1.30±0.20	0.40±0.30	0.95±0.25	ø178	2,000	YFF31PC1C474MT000N
3.20±0.20	1.60±0.20	1.30±0.20	0.40±0.30	0.95±0.25	ø330	10,000	YFF31PC1C474MT009N
3.20±0.20	1.60±0.20	1.30±0.20	0.40±0.30	0.95±0.25	ø178	2,000	YFF31PC1C224MT000N
3.20±0.20	1.60±0.20	1.30±0.20	0.40±0.30	0.95±0.25	ø330	10,000	YFF31PC1C224MT009N

Click the part number for details.

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 this products

REMINDERS

1. 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.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- | | |
|--|--|
| (1) Aerospace/aviation equipment | (7) Transportation control equipment |
| (2) Transportation equipment (cars, electric trains, ships, etc.) | (8) Public information-processing equipment |
| (3) Medical equipment (excepting Pharmaceutical Affairs Law classification Class1,2) | (9) Military equipment |
| (4) Power-generation control equipment | (10) Electric heating apparatus, burning equipment |
| (5) Atomic energy-related equipment | (11) Disaster prevention/crime prevention equipment |
| (6) Seabed equipment | (12) Safety equipment |
| | (13) Other applications that are not considered general-purpose applications |

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

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