



April. 2016 Ver.4.1
TDK Corporation

Multilayer Diplexer

For LTE

DPX Series

2012 TYPE

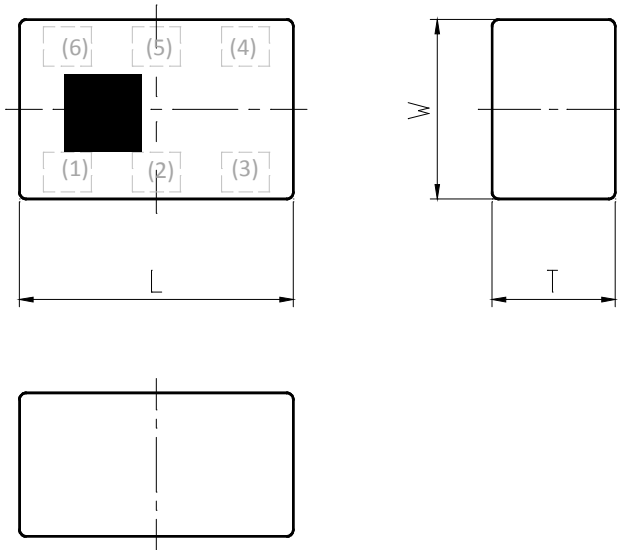
P/N: **DPX202690DT-4082A1**

April. 2016 Ver.4.1
TDK Corporation

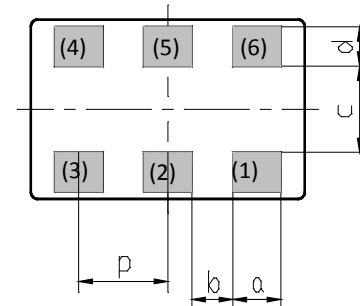
DPX202690DT-4082A1

■ SHAPES AND DIMENSIONS

[Top View]



[Bottom View]



Dimensions (mm)

L	W	T	a	b	c	d	p
2.00	1.25	0.90	0.35	0.30	0.60	0.275	0.65
+/-0.10	+/-0.10	Max	+/-0.10	+/-0.10	+/-0.10	+/-0.10	+/-0.10

Terminal functions

(1)	GND
(2)	Common Port
(3)	GND
(4)	High-Band Port
(5)	GND

(6)	Low-Band Port
-----	---------------

■ TEMPERATURE RANGE

Operating temperature	Storage temperature
-40 to +85 °C	-40 to +85 °C

■ TERMINATION FINISH

Material
Au plate

April. 2016 Ver.4.1
TDK Corporation

DPX202690DT-4082A1

■ ELECTRICAL CHARACTERISTICS

(Measurement)

Low-Band

Parameter	Frequency (MHz)	TDK Spec		
		Min.	Typ.	Max.
Insertion Loss (dB)	699 to 880	-	0.37	0.45
	880 to 915	-	0.40	0.50
	925 to 960	-	0.48	0.60
Insertion Loss (dB) (-40 to +85 °C)	699 to 880	-		0.55
	880 to 915	-		0.60
	925 to 960	-		0.70
Return Loss (dB)	699 to 960	15	22.9	-
Attenuation (dB)	1398 to 1427	5	23.3	-
	1427 to 1920	23	26.4	-
	1920 to 2690	25	28.6	-
	2690 to 4194	5	19.8	-
	4194 to 5760	5	19.8	-
	5150 to 5850	15	21.0	-
	5760 to 12750	5	22.3	-

Ta = +25+/-5°C

High-Band

Parameter	Frequency (MHz)	TDK Spec		
		Min.	Typ.	Max.
Insertion Loss (dB)	1427 to 1511	-	0.50	0.60
	1710 to 2170	-	0.28	0.40
	2300 to 2690	-	0.34	0.50
Insertion Loss (dB) (-40 to +85 °C)	1427 to 1511	-		0.70
	1710 to 2170	-		0.50
	2300 to 2690	-		0.60
Return Loss (dB)	1427 to 2690	12	16.8	-
Attenuation (dB)	300 to 960	15	18.9	-
	3600 to 3840	10	16.0	-
	3840 to 5150	5	9.7	-
	5150 to 5850	5	9.7	-
	5850 to 7600	0.5	10.8	-
	8500 to 12750	0.5	1.8	-

Ta = +25+/-5°C

April. 2016 Ver.4.1
TDK Corporation

DPX202690DT-4082A1

■ ELECTRICAL CHARACTERISTICS

(Measurement)

Common

Parameter	Frequency (MHz)	TDK Spec		
		Min.	Typ.	Max.
Isolation (dB)	699 to 960	18	20.0	-
	1427 to 1511	23	27.1	-
	1710 to 1910	23	26.4	-
	1910 to 2690	25	28.8	-
Return Loss (dB)	699 to 960	15	21.1	-
	1710 to 2690	12	16.6	-
Characteristic Impedance (ohm)		50 (Nominal)		

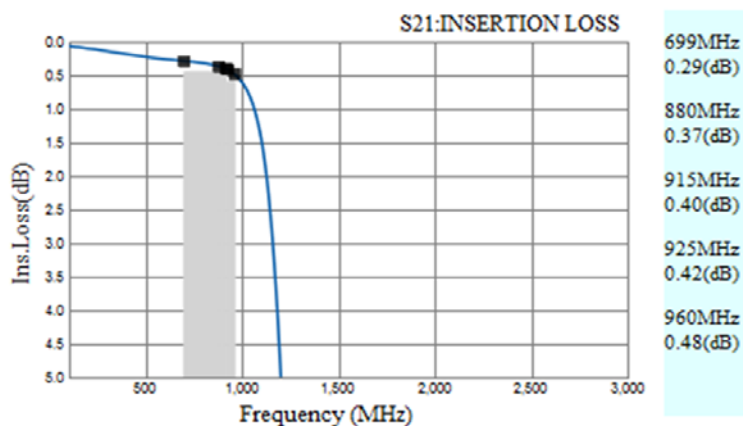
Ta = +25+/-5°C

April. 2016 Ver.4.1
TDK Corporation

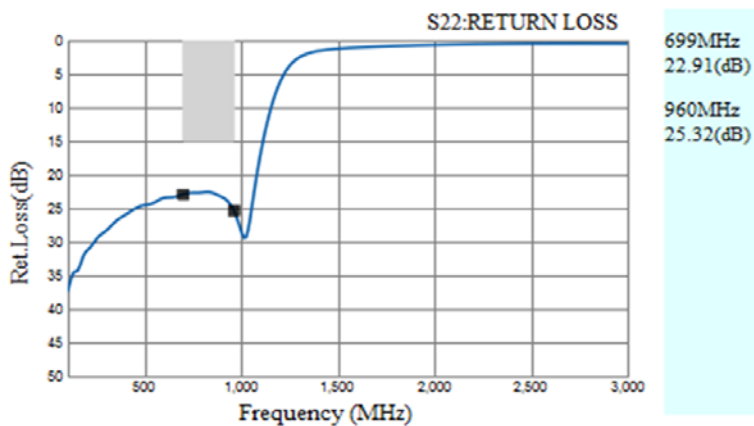
DPX202690DT-4082A1

FREQUENCY CHARACTERISTICS

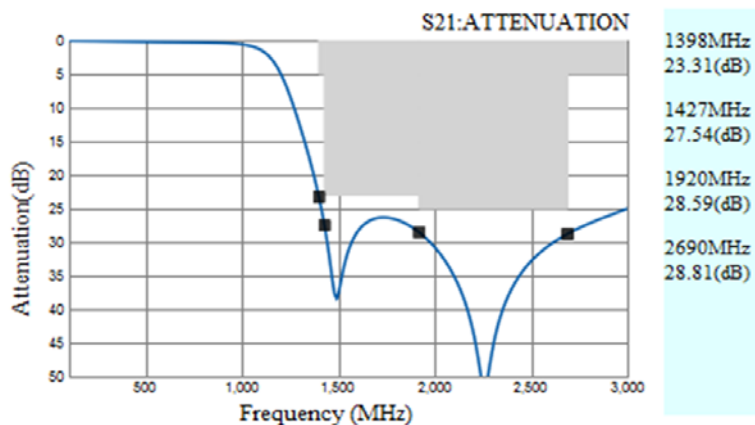
Insertion Loss (Low-Band)



Return Loss (Low-Band)



Attenuation (Low-Band)

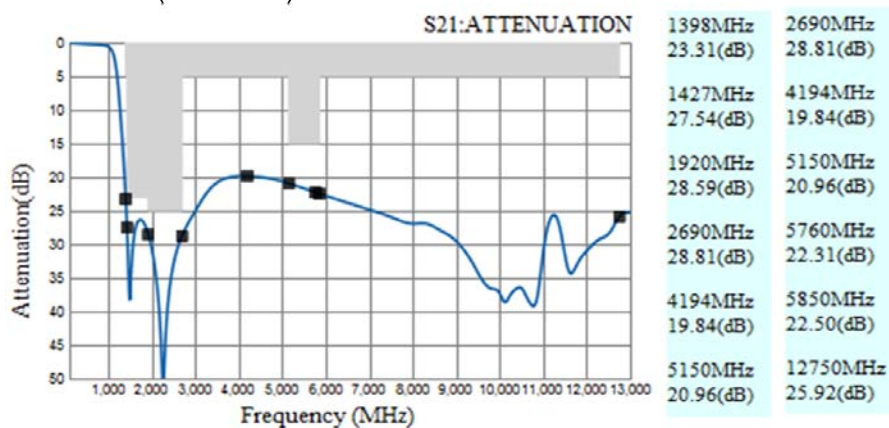


April. 2016 Ver.4.1
TDK Corporation

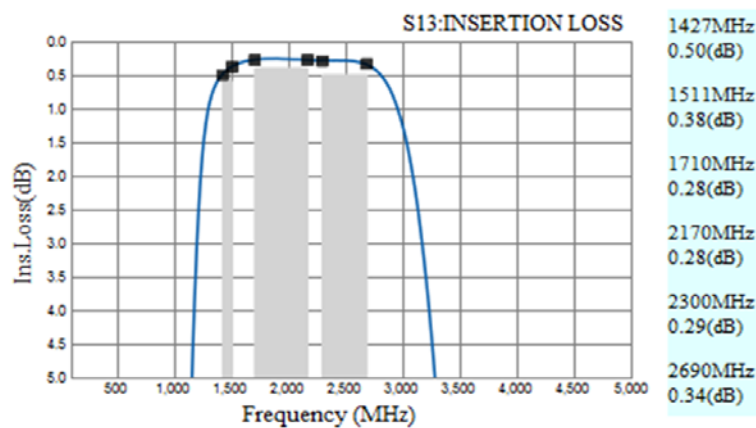
DPX202690DT-4082A1

FREQUENCY CHARACTERISTICS

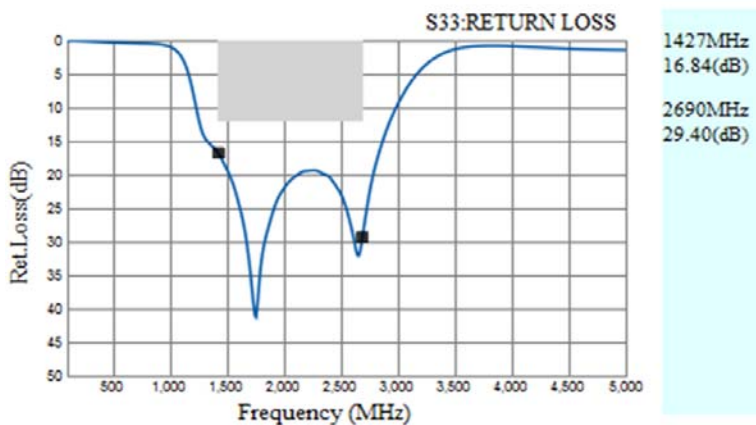
Attenuation (Low-Band)



Insertion Loss (High-Band)



Return Loss (high-Band)

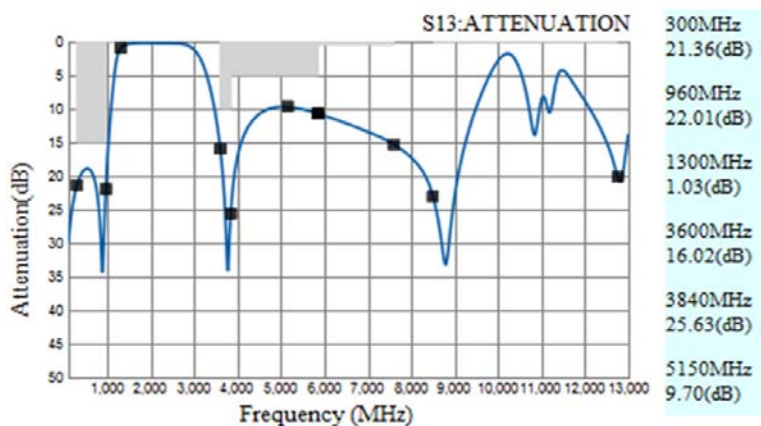


April. 2016 Ver.4.1
TDK Corporation

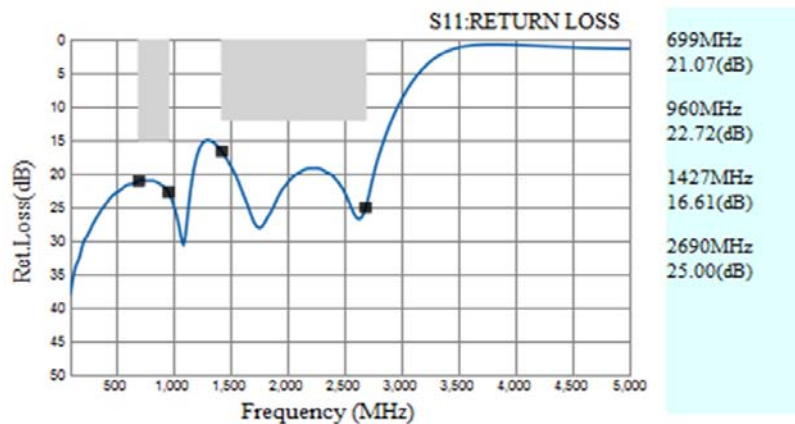
DPX202690DT-4082A1

FREQUENCY CHARACTERISTICS

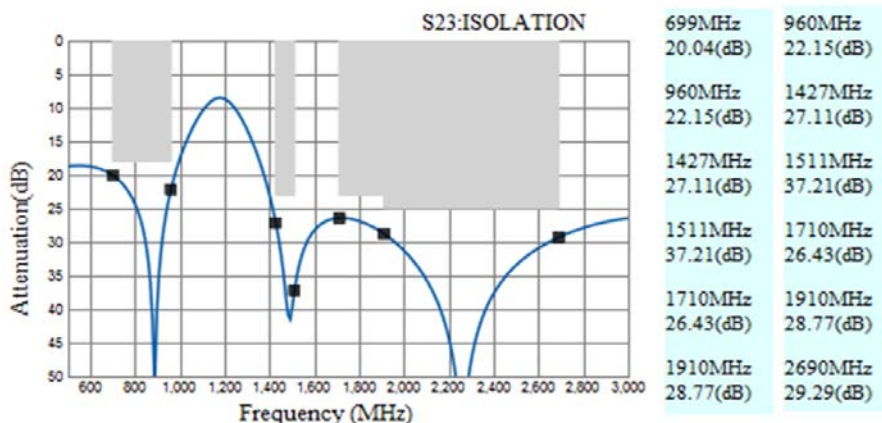
Attenuation (High-Band)



Common port Return Loss



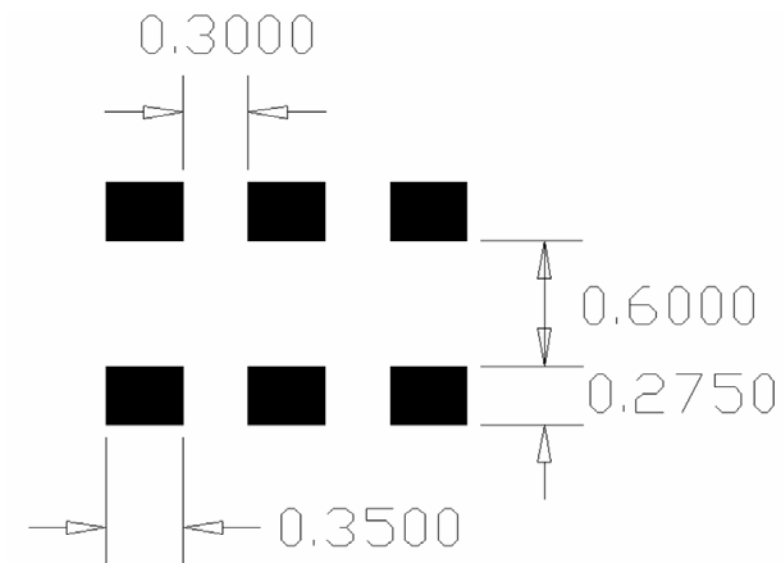
Isolation



April. 2016 Ver.4.1
TDK Corporation

DPX202690DT-4082A1

■ RECOMMENDED LAND PATTERN



Unit[mm]

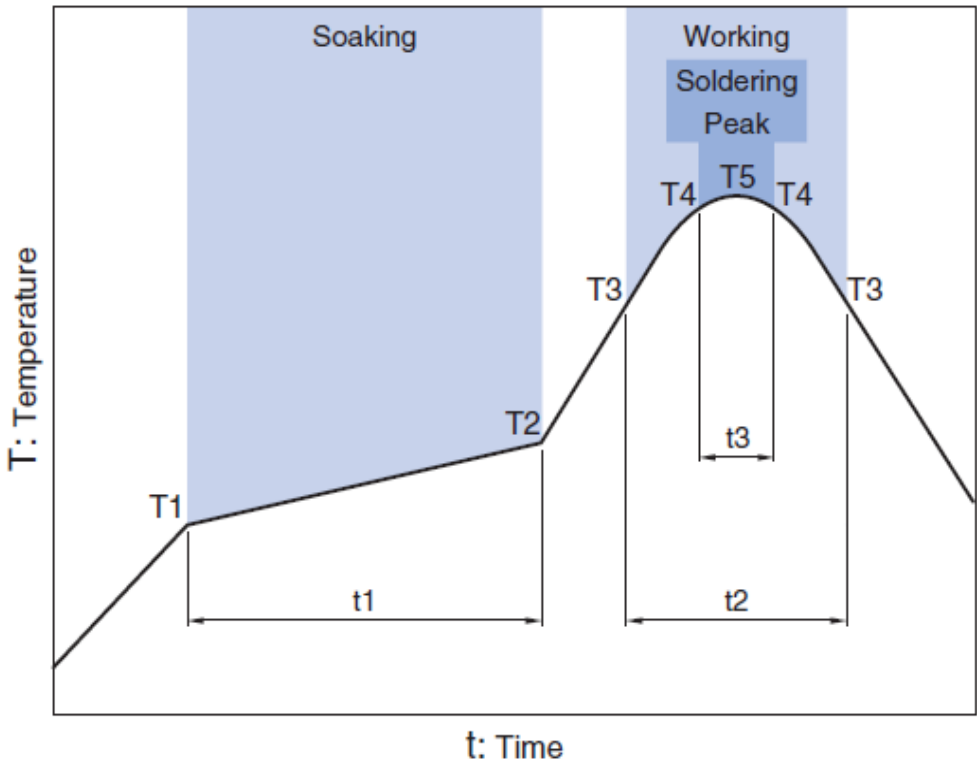
■ ENVIROMENT INFORMATION

RoHS Statement
RoHS Compliance

DPX202690DT-4082A1

RECOMMENDED REFLOW PROFILE

Pb free solder



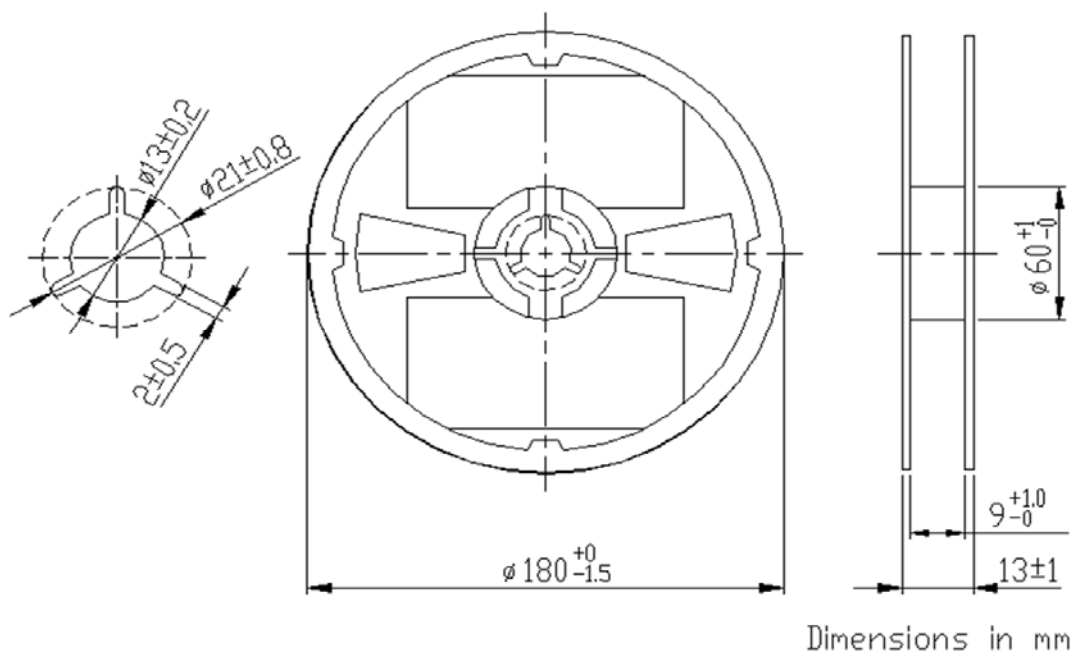
Soaking			Working		Soldering		Peak
Temp.		Time	Temp.	Time	Temp.	Time	Temp.
T1	T2	t1	T3	t2	T4	t3	T5
150°C	180°C	60 to 120sec	230°C	more than 30sec	247 to 253°C	within 10sec	260°C Max.

April. 2016 Ver.4.1
TDK Corporation

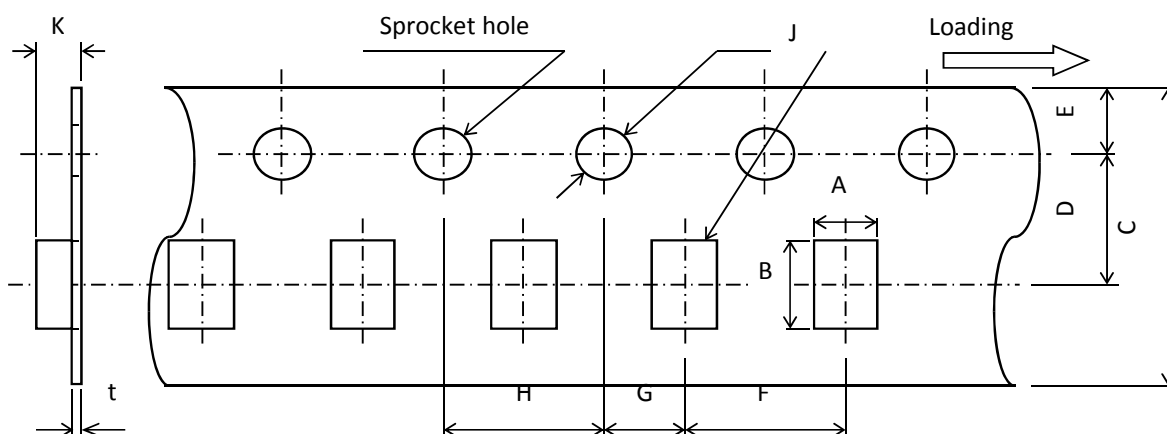
DPX202690DT-4082A1

■ PACKAGING STYLE

Reel Dimensions



Carrier Tape



Dimensions (mm)

A	B	C	D	E	F	G	H	J	K	t
1.45	2.2	8.0	3.5	1.75	4.0	2.0	4.0	1.5	0.95	0.25
± 0.05	± 0.05	$\pm 0.3/-0.1$	± 0.05	± 0.1	± 0.1	± 0.05	± 0.1	$\pm 0.1/-0$	MAX	± 0.05

STANDARD PACKAGE QUANTITY
(pieces/reel)

2,000

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 specification sheet 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 specification sheet.

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

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.

单击下面可查看定价，库存，交付和生命周期等信息

[>>TDK Corporation\(东电化\)](#)