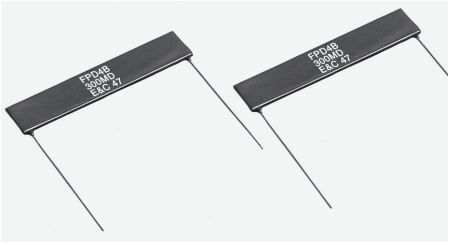
FP TYPE

Plate Resistors



The FP type resistors are manufactured by sintering the resistive film on the ceramic substrate.
They are particularly useful in the high-voltage circuit.
Some products are compliant with complete lead free, it's used lead free glass.
Complete lead free products reduce the effects on the environment.

■FEATURES

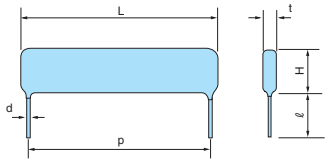
- ●Useful as a high-voltage load; Highly resistant to the impulse voltage.
- ●Small temperature coefficient.
- ●Minimized resistance change in long-term stability.

■CHARACTERISTICS

Item	Characteristics	Test method
Operating temperature range	−40°C～+150°C	
Temperature coefficient	B ±25 C ±50 D ±100 S ±200 ppm/°C	Measured at 25°C and 75°C
Long-term stability	±1%	At normal temperature and humidity for10,000hr.
Moisture resistance	±1%	40°C, 90 to 95%RH, 250hr.
Load life	±1%	Rated power×1/2 at normal temperature for 3,000hr

■PRODUCTION DATA

●Shape



Type ※1	Complete lead free	Characteristics Symbol	Characteristics Temperature coefficient (ppm/°C)	Range of resistance values Min. (MΩ)	Range of resistance values Max. (MΩ)	Rated power (W)	Max. working voltage DC(kV) in air	Max. working voltage DC(kV) Molding	Dimensions (mm) L (Max.)	p	H (Max.)	t	ℓ	d	Resistance tolerance (%)
FPD1/2		B	±25	2	500	1/2	2	4	19	14±1	8.5	2.5±1	33±3	0.6 ±0.05	±0.5(D) ±1(F) ±5(J)
		C	±50	2	500										
		D	±100	0.05	500										
		S	±200	0.01	1000										
FPD1		B	±25	3	500	1	5	10	27	21.5 ±1					
		C	±50	3	500										
		D	±100	0.05	1000										
		S	±200	0.01	1000										
FPD1L	○	S	±200	1	1000										
FPD2		B	±25	5	500	2	15	30	52	46±1					
		C	±50	5	500										
		D	±100	0.1	1000										
		S	±200	0.02	1000										
FPD2L	○	S	±200	1	1000										
FPD4		B	±25	10	500	4					13.5				
		C	±50	10	500										
		D	±100	0.1	1000										
		S	±200	0.05	1000										
FPD4L	○	S	±200	1	1000										

NOTICE: ※1 Type of complete lead free are marked with symbolic code "L" (Example : FPD1LS 100MF).
※Consult your local dealer for the availability of resistors with resistance values and tolerances which are outsidethe ranges given above and of a special shape.

<CAUTION> Rated power recommend derate less than 50% for long term use.