

# SPECIAL PURPOSE THICK FILM CHIP RESISTORS



**Prosperity Dielectrics Co. Ltd (PDC)** is a Taiwanese manufacturer of specialty thick film chip resistors since 1990. Specialty chip resistors are passive components that are designed for the use at special purposes. PDC is focussed only on these specialties and can offer excellent performance with competitive price and reasonable lead times. Highlights are the FPS (high-power & anti-surge type) and FVS (safety resistor with UL listing) series.

## FEATURES

- Designed in these technologies: Metal Paste, Metal Strip, and Thick Film
- Optimized for these purposes: Current sensing, high voltage, Safety, Precision, high power, anti-surge, High resistance, trimmable, non-magnetic and anti-sulfurate

## APPLICATIONS

- Power supplies: such as AC/DC, DC/DC, Inverter, SMPS, Charger, ...
- Communication: Modem / Router, Lan / Wlan, Tuner, Phones, ...
- Industrial electronics: such as electronic controller units, automation equipment, ...
- Special: such as automotive, medical, measurement, military, ...

TYPE	SERIES	RES. RANGE	TOLERANCE	TCR [PPM/K]	POWER RATING	SIZE
Anti-Surge	FNF	1 ~ 1 MΩ	±5 %, ±10 %, ±15 %, ±20 %	±100	1/10 ~ 1 W	0603 ~ 2512
Anti-Surge & high power	FPS double / triple power	0 Ω; 1 Ω ~ 1 MΩ	±1 %, ±5 %	±100 ~ ±200	1/8 ~ 2 W	0603 ~ 2512
Array	FCF-Array	0 Ω; 10 Ω ~ 1 MΩ	±1 % ~ 5 %	±200 ~ ±300	1/16 ~ 1/10 W	4P2R ~ 16P8R
Automotive	FWF	0 Ω; 1 ~ 10 MΩ	±1 %, ±5 %	±100 ~ ±200	1/16 ~ 1 W	0402 ~ 2512
Current sensing – thick film	FCF-L	510 mΩ < ~ 910 mΩ	±1 %, ±5 %	±200 ~ ±300	1/10 ~ 1 W	0603 ~ 2512
Current sensing – Metal Strip	FMF / FMF06	1 m ~ 100 mΩ	±1 %, ±2 %, ±5 %	±70 ~ ±100	1/2 ~ 5 W	1206 ~ 5931
Current sensing – Metal paste	FBF	10 mΩ ~ 910 mΩ	±1 %, ±5 %	±100 ~ ±400	1/8 ~ 2 W	0603 ~ 2512
High Power – Low Resistance	FPF-L / FPF25 Triple	50 m ~ 910 mΩ	±1 %, ±5 %	±100 ~ ±250	1/4 ~ 3 W	0603 ~ 2512
High Power – high resistance	FPF double / triple power	0 Ω; 1 Ω ~ 10 MΩ	±1 %, ±5 %	±100 ±150 ±200	1/8 ~ 3 W	0603 ~ 2512
High Ohmic	FHF	11 M ~ 100 MΩ	±1 %, ±5 %	±200	1/10 ~ 1/4 W	0603 ~ 1206
High Voltage	FVF	100 K ~ 100 MΩ	±1 %, ±5 %	±100 ~ ±200	1/10 ~ 1 W	0603 ~ 2512
High-Voltage with safety certificate (UL file)	FVS	100 KΩ ~ 100 MΩ	±1 %, ±5 %	±100 ~ ±200	1/10 ~ 1 W	0603 ~ 2512
Non-Magnetic	FGF	0 Ω; 1 ~ 10 MΩ	±1 %, ±5 %	±100 ~ ±200	1/10 ~ 1/4 W	0603 ~ 1206
Trimmable	FTF	10 ~ 1 MΩ	0 ~ -10 % (Z); 0 ~ -20 % (Y); 0 ~ -30 % (X)	±100	1/10 ~ 1 W	0603 ~ 2512