

PRODUCT PROFILE & CROSS REFERENCE



NPYT Series

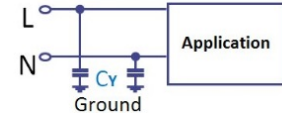
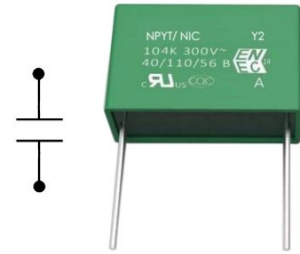
Y1 & Y2 Safety Film Capacitors



www.niccomp.com/catalog/npyt.pdf

www.niccomp.com/series/NPYT

X1 = NPXF
X2 = NPX, NPXH
Y1 & Y2 = NPYT



NIC Components is pleased to announce the expansion of NPYT series including both **Y1** and **Y2 class Safety Capacitors** to its expanded family of leaded (LDD) high performance safety film capacitors. NPYT series covers capacitance value range of 470pF to 4.7uF, in AC voltage ratings from 250VAC to 500VAC. NPYT series is designed for use connected between Line(L) or Neutral (N) and Ground (G) in North America, and between L-1 or L2 and Ground in Europe, to suppress common mode interference (EMI).

NPYT series utilizes metallized polypropylene film with non-inductive & self-healing wound element construction, for stability under VAC operation, and safe end-of-life failure mode. Y class capacitors suppress common-mode noise (EMI) produced by electronic equipment, preventing the escape of EMI, via the AC line, to connected equipment. Y class capacitors protect users from electrical shock potential, so component reliability is a key requirement.

NPYT series feature wide operating temperature range of -40°C to +110°C and high withstanding voltage capability of 2000VAC (Y2) or 4000VAC (Y1). NPYT series have safety agency listings with UL, cUL, ENEC, CQC for use in line bypass applications. Molded box type construction meets UL-94V-0 flammability test.

Circuit Applications:

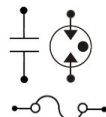
- AC Line Filtering
- EMI interference suppression
- Common mode EMI suppression
- AC line or neutral to ground
- L1 or L2 to ground in Europe

End Products

- Power supplies
- Industrial equipment
- Motor Controls-Drives
- HVAC equipment
- Pump controllers
- Smart Grid (Metering)
- Security & Alarm
- Office Equipment
- Power Tools
- Networking

FEATURES & ADVANTAGES:

- Wound Metallized Polypropylene Film
- Self-Healing Construction
- Molded Box Type, UL-94V-0 rated
- Y1 & Y2 Class Safety Capacitor
- High VAC Rating: 250VAC to 500VAC
- Withstanding Voltage; 2000VAC or 4000VAC
- DV/DT ratings: 700V/uS to 3000V/uS
- Safety Listings: UL, cUL, ENEC, CQC
- IEC 60068-1 Climatic category 40/110/56
- Tape and box packaging supported



Co-sell with NIC Circuit Protection:

- NGT_5 series of SMT Gas Discharge Tubes
- NFVC-H 250VAC (up to 5A) SMT Fuses
- NPXH X2 Safety Caps; Across the line EMI suppression

→ Cross the below competitor PNs

| Name | Y1 Series | Y2 Series |
|-----------|----------------------------|-------------------|
| KEMET | Replace 'Safety Disc' type | R41, F881, PHE850 |
| TDK EPCOS | B81123 | B32021 ... B32026 |
| VISHAY | Replace VY1 Ceramic type | MKP338, BFC2 338 |
| WIMA | --- | MKP-Y2 |



Technical Support: tpmg@niccomp.com