

Stay-alive-kondensator för småskaligt MJ-bruk

Anslutning till dekoder

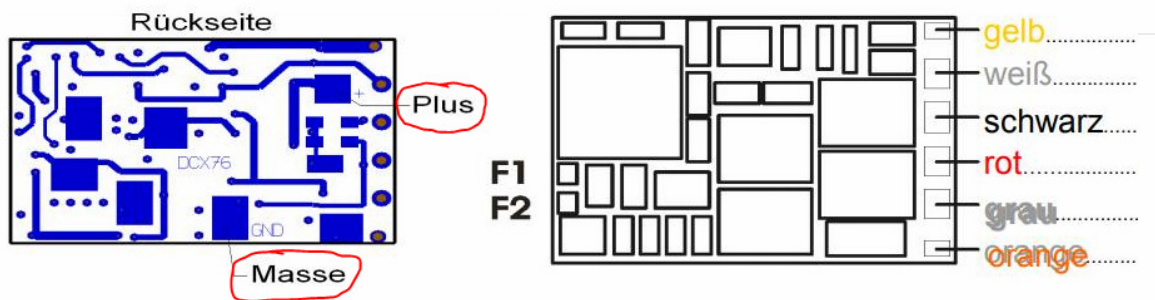
Kondensatorn ansluts mellan dekoderns plus (blå sladd) och jord ("GND" eller "0V" eller "Masse"). Dessa signaler finns ofta inte utdragna (exempelvis finns de inte i NEM651-interfacet), men de finns nästan alltid tillgängliga på dekodern som lödpunkter.

Kondensatorn är märkt med ett streck på ena sidan. Denna sida skall anslutas till Plus på dekodern.

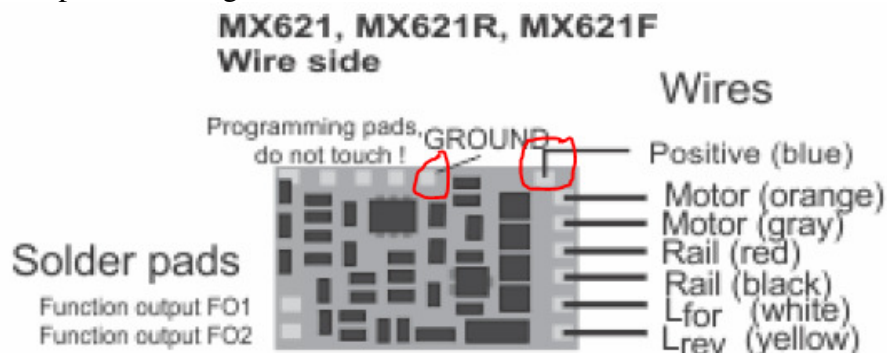
Vill man få ännu bättre energireserv kan flera kondensatorer parallellkopplas. Eventuellt kan det ge påverkan på DCC-kommunikationen (hittills bara en kondensator provad). Om så skulle vara fallet kan man lösa det med en induktor i serie med kondensatorn.

Exempel anslutning Tran DCX76:

1.1 Anschlüsse des DCX76 nach NEM 651



Exempel anslutning Zimo MX621:



Utdrag ur databladet:

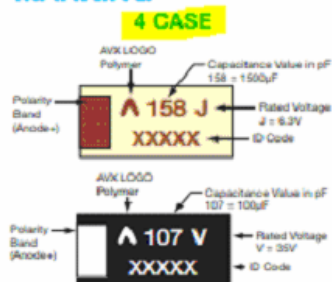
Tillverkare: AVX

Artikelnummer: TCN4227M025R0100E

CASE DIMENSIONS Undertab: millimeters (inches)

| Code | EIA Code | EIA Metric | L±0.20 (0.008) | W+0.20 (0.008) -0.10 (0.004) | H max. | W ₁ ±0.10 (0.004) | W ₂ ±0.10 (0.004) | A ₁ ±0.10 (0.004) | A ₂ ±0.10 (0.004) | S Min. |
|----------|----------|------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------|
| L | 1210 | 3528-10 | 3.50 (0.138) | 2.80 (0.110) | 1.00 (0.039) | 2.50 (0.098) | 2.10 (0.083) | 1.15 (0.045) | 1.35 (0.053) | 1.00 (0.039) |
| T | 1210 | 3528-12 | 3.50 (0.138) | 2.80 (0.110) | 1.20 (0.047) | 2.50 (0.098) | 2.10 (0.083) | 1.15 (0.045) | 1.35 (0.053) | 1.00 (0.039) |
| X | 2917 | 7343-15 | 7.30 (0.287) | 4.30 (0.169) | 1.50 (0.059) | 3.25 (0.128) | 3.25 (0.128) | 2.00 (0.079) | 3.20 (0.126) | 2.10 (0.083) |
| 4 | 2924 | 7361-20 | 7.30 (0.287) | 6.10 (0.240) | 2.00 (0.079) | 4.75 (0.187) | 4.75 (0.187) | 2.00 (0.079) | 3.20 (0.126) | 2.10 (0.083) |

MARKING



UNDERTAB



TECHNICAL SPECIFICATIONS

| | | | | | | | | |
|---------------------------------|--|-----|----|----|----|-----------|----|----|
| Technical Data: | All technical data relate to an ambient temperature of +25°C | | | | | | | |
| Capacitance Range: | 4.7 µF to 1500 µF | | | | | | | |
| Capacitance Tolerance: | ±20% | | | | | | | |
| Leakage Current DCL: | 0.1CV | | | | | | | |
| Rated Voltage (V _R) | ≤ +85°C: | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
| Surge Voltage (V _S) | ≤ +85°C: | 8 | 13 | 21 | 26 | 33 | 46 | 65 |
| Temperature Range: | -55°C up to +125°C | | | | | | | |
| Reliability: | 1% per 1000 hours at 85°C, V _R with 0.1Ω/V series impedance 60% confidence level | | | | | | | |

NOTE: Conductive Polymer Capacitors are designed to operate within the limits of the environmental conditions specified for each series. If operated continuously at their maximum temperature and / or humidity limit, or beyond these limits, capacitors may exhibit a parametric shift in capacitance and increases in ESR. These changes may occur earlier if the specified environmental conditions are exceeded. Similarly, their normal operational time period will be significantly extended if their general duty cycle includes operation below maximum temperature within humidity controlled environments. Careful attention should be paid to maximum temperature with associated high humidity environments as well as voltage derating, ripple current and current surges. Please reference the AVX Conductive Polymer Capacitor Guidelines for more information or contact factory for application assistance.

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance | | Rated Voltage DC to 85°C, [mJ] | | | | | | |
|-------------|------|--------------------------------|-------------|-----------------------|---------------|----------------------|---------|---------|
| µF | Code | 6.3V (J) | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 220 | 227 | H(170) [2.6] | D(40) [7.9] | D(50) [21.8] 4(70) | 4(100) [27.2] | 4(100) [43.0] | | |

Released ratings, (ESR ratings in mOhms in parentheses) [Energy in mJ]

Engineering samples - please contact AVX

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher voltage ratings in the same case size, to the same reliability standards.