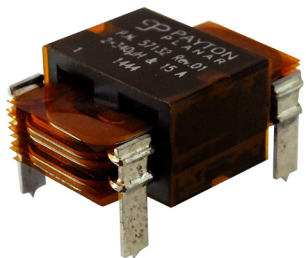


Common Mode Choke



Description

Payton Common Mode Chokes provide an effective, compact, planar solution for excellent suppressing common mode noise from switch mode power supplies lines. The components have very high repeatability, low profile and weight, low leakage flux, and high impedance at applicable frequency.

1. Physical Characteristics

DIMENSIONS (mm)	TYPICAL WEIGHT	OPERATING TEMPERATURE	TEMPERATURE RISE	TERMINALS
L=29 W=27 H=12	40 gr. max.	-55° - +90°C	40°C max.	SMT/TROUGH HOLES

2. Typical Electrical Characteristics

Inductance range	60μH - 1000μH
Operating frequency	50kHz - 3MHz
Rated DC current range	4A - 300A
Peak current for 1 sec.	Up to 20%-30% I nominal
DC resistance range	3 - 18 mOhm
Dielectric strength with standing voltage (between windings)	500 Vrms
Leakage to nominal Inductance ratio	≤8.10 ⁻³ %
Interwinding capacitance range	200 pF - 700 pF

3. Typical Thermal Impedance For Different Cooling Conditions

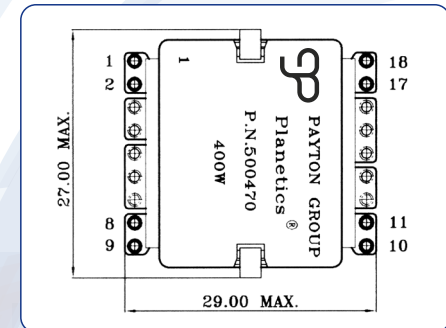
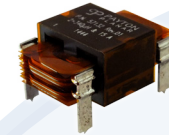
NATURAL COOLING (Hot Spot - Air)	BLOWING AIR 3m/sec (Hot Spot - Air)	ONE SIDE HEATSINK (Hot Spot - Heatsink)	TWO SIDES HEATSINK (Hot Spot - Heatsink)
22°C/W	12°C/W	7°C/W	3.5°C/W

Common Mode Choke P.N. 500470

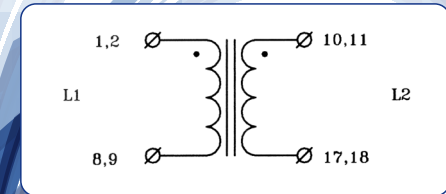
This I055-3-3 high inductance, high current, low leakage, high efficiency and small dimensions planar common mode choke is developed for suppressing common mode noise from switch mode power supplies lines, providing the following specifications:

Common Mode Choke Specifications

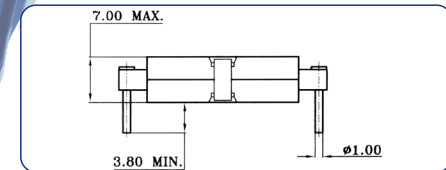
Inductance L1, L2	330 μ H \pm 30%
Rated DC Current	20A
Operating Frequency	300 kHz.
Peak Current for 1 sec.	60A _{dc}
Dielectric strength (between L1+L2 to core)	500 V _{rms}
Power losses (With 90°C heat sink)	2.7W
Ambient temperature	-55°C to +90°C
Hot spot temperature (With 90°C heat sink)	115°C
Weight	20 gr.



TOP VIEW



ELECTRICAL DIAGRAM



SIDE VIEW

(All dimensions are given in mm.)