



PM-OM7 Series

Common Mode Choke

PM-OM7 series Common Mode Chokes (CMC) are typically used in EMI filters within switch mode power supplies to suppress noise to-and-from the power line or the input side. This series is optimal in projects that need a small solution for high current applications.

Figure 1: SCHEMATIC

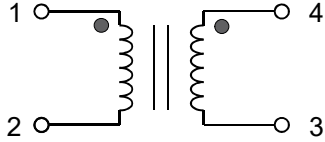


Figure 2: MECHANICAL SPECIFICATIONS (mm)

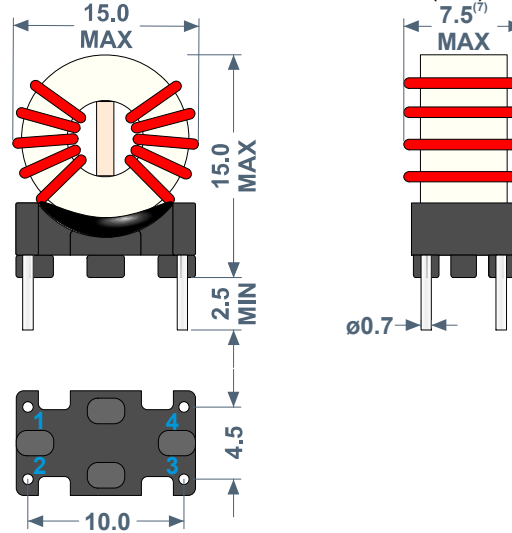


Table 1: PART NUMBER LIST.

PART NUMBER	L_{MIN} (mH)	I_{DC} (A)	DCR_{MAX} (mΩ)	SRF (MHZ)
PM-OM712	80	0.32	3400	0.8
PM-OM711	60	0.42	2250	0.9
PM-OM710	40	0.51	1550	1.0
PM-OM709	28	0.71	800	1.5
PM-OM708	16	0.92	475	3.0
PM-OM701	7.7	1.1	335	5.0
PM-OM702	5.6	1.3	239	6.0
PM-OM703	3.5	1.7	140	8.0
PM-OM704	1.1	2.6	60	16
PM-OM705	0.7	3.2	40	25
PM-OM706	0.35	4.6	19	40
PM-OM707	0.28	6.1	12	45

Table 2: ELECTRICAL SPECIFICATIONS 25°C

PARAMETERS	TEST CONDITION	MIN	TYP	MAX	UNIT
INDUCTANCE	(1-2); 300mV _{RMS} , 10kHz	Table 1	-	-	mH
DC RESISTANCE	(1-2); (4-3)	-	-	Table 1	Ω
TURN RATIO	(1-2):(4-3); 100mV _{RMS} , 10kHz	-	1:1	-	±3%
HIPOT	1 to 4; 3.0mA MAX, ramp 1s, dwell 1s.	3500	-	-	V _{RMS}
WEIGHT		-	2.2	2.6	g

NOTES:

- 1) SRF is TYP.
- 2) I_{DC} is the TYP current that causes a temperature rise of 65°C.
- 3) Thermal resistance $R_{TH} \approx 90^\circ\text{C/W}$.
- 4) Operating temperature -60°C to +155°C.
- 5) All units comply with EU RoHS Directive requirements.
- 6) All units comply with REACH Regulation requirements.
- 7) PM-OM706 and PM-OM707 could reach 7.8mm MAX width.

Specifications subject to change without notice.

PM-OM7 01/24