•FEATURE

1. Through-hole off-line common mode inductors.
2. Provide significant attenuation of common noise across a broad range of frequencies
3. Operating Temperature -40 ~ +105℃ (A for-20 ~ +85℃)

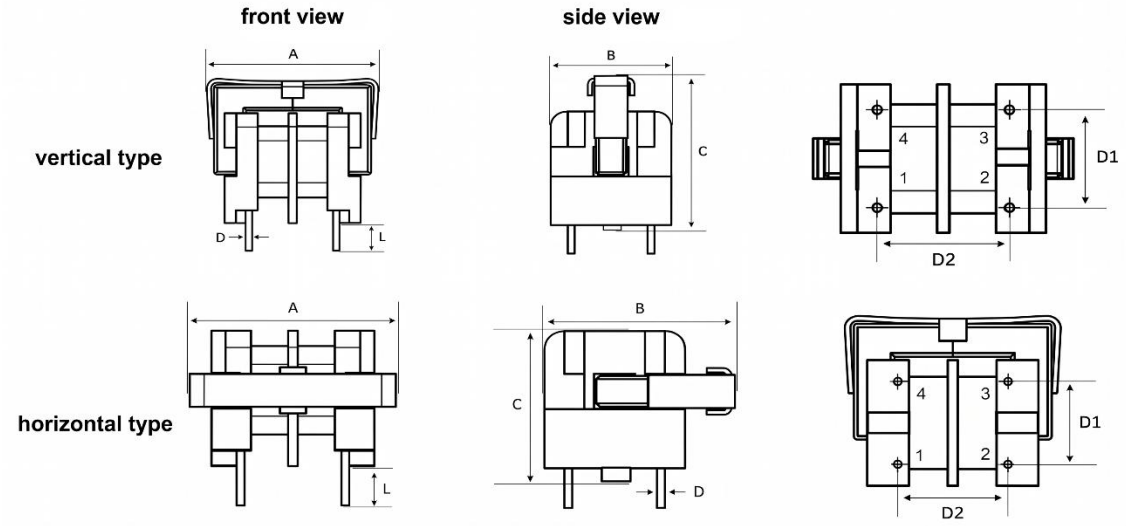
•APPLICATION

Off-line power supplies, Protects AC input from effects of switching regulators, DCDC converters, Computer, TV, VCR, Audio and Office Equipment.

•ORDERING INFORMATION

CMU	98	H	-201	-4.5A	A
Series	Dimension 98/105/16	Horizontal Type	Inductance(L) @ 1KHz/0.3V	Rated Current	Option for -20 ~ +85℃

•SHAPE AND DIMENSION



•SPECIFICATION

Unit: mm

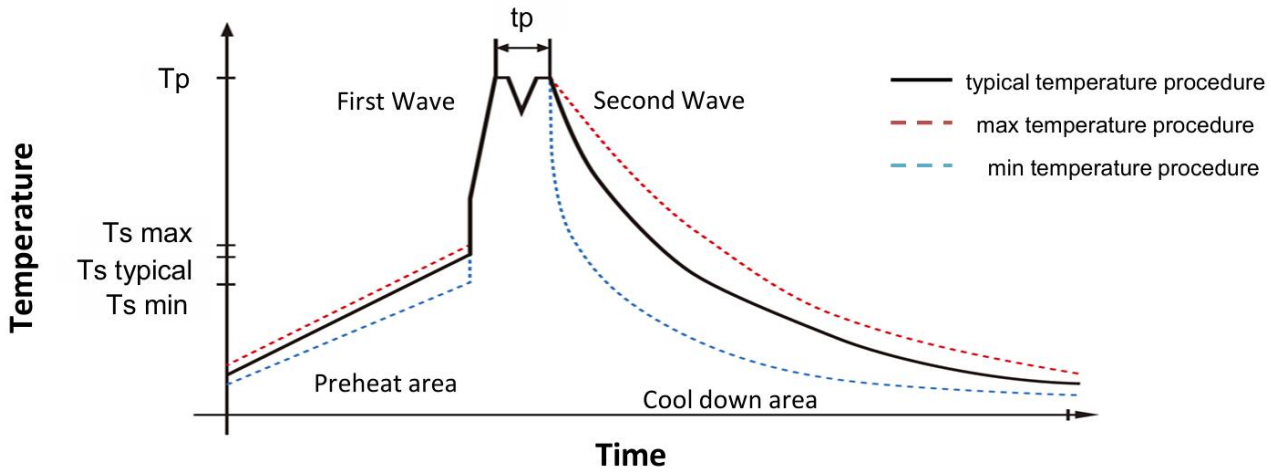
TYPE	A	B	C	D	D1	D2	L	SPQ(BOX)
CMU98	17.0 max	12.0 max	17.0 max	0.6±0.1	7.0±0.5	8.0±0.5	3.0 min	450
CMU105	19.5 max	18.0 max	23.0 max	0.7±0.1	10.0±0.5	13.0±0.5	3.0 min	260
CMU16	22.0 max	20.2 max	28.5 max	0.7±0.1	10.0±0.5	13.0±0.5	3.0 min	187
CMU98H	17.0 max	16.0 max	13.0 max	0.6±0.1	7.0±0.5	8.0±0.5	3.0 min	336
CMU105H	18.0 max	19.5 max	17.0 max	0.7±0.1	10.0±0.5	13.0±0.5	3.0 min	252
CMU16H	22.0 max	25.0 max	21.0 max	0.7±0.1	10.0±0.5	13.0±0.5	3.0 min	150

•ELECTRICAL CHARACTERISTICS

Part Number	Inductance(L) (mH) @ 1KHz/0.3V	DCR (Ω) Max.	Rate Current (mA)	IR (mΩ)
CMU98-201-4.5A	0.2	0.03	4500	100
CMU98-501-4A	0.5	0.045	4000	100
CMU98-102-3A	1	0.09	3000	100
CMU98-202-2.5A	2	0.09	2500	100
CMU98-502-2A	5	0.26	2000	100
CMU98-103-1A	10	0.70	1000	100
CMU98-203-0.6A	20	1.20	600	100
CMU98-303-0.8A	30	0.90	800	100
CMU98-503-0.25A	50	2.50	250	100
CMU98-104-0.1A	100	5.20	100	100
CMU105-501-8A	0.5	0.02	8000	100
CMU105-102-8A	1	0.02	8000	100
CMU105-202-5A	2	0.065	5000	100
CMU105-502-4A	5	0.10	4000	100
CMU105-1033A	10	0.19	3000	100
CMU105-203-2A	20	0.35	2000	100
CMU105-303-1A	30	0.80	1000	100
CMU105-503-1A	50	1.10	1000	100
CMU105-104-0.3A	100	4.0	300	100
CMU16-102-9A	1	0.02	9000	100
CMU16-202-7.5A	2	0.04	7500	100
CMU16-502-6A	5	0.08	6000	100
CMU16-103-4.5A	10	0.11	4500	100
CMU16-203-3.5A	20	0.25	3500	100
CMU16-203-3.5A	20	0.25	3500	100
CMU16-503-1.5A	50	0.70	1500	100
CMU16-104-1A	100	2.00	1000	100

Part Number	Inductance(L) (mH) @ 1KHz/0.3V	DCR (Ω) Max.	Rated Current (mA)	IR (mΩ)
CMU98H-201-4.5A	0.2	0.03	4500	100
CMU98H-501-4A	0.5	0.045	4000	100
CMU98H-102-3A	1	0.09	3000	100
CMU98H-202-2.5A	2	0.09	2500	100
CMU98H-502-2A	5	0.26	2000	100
CMU98H-103-1A	10	0.70	1000	100
CMU98H-203-0.6A	20	1.20	600	100
CMU98H-303-0.8A	30	0.90	800	100
CMU98H-503-0.25A	50	2.50	250	100
CMU98H-104-0.1A	100	5.20	100	100
CMU105H-501-8A	0.5	0.02	8000	100
CMU105H-102-8A	1	0.02	8000	100
CMU105H-202-5A	2	0.065	5000	100
CMU105H-502-4A	5	0.10	4000	100
CMU105H-103-3A	10	0.19	3000	100
CMU105H-203-2A	20	0.35	2000	100
CMU105H-303-1A	30	0.80	1000	100
CMU105H-503-1A	50	1.10	1000	100
CMU105H-104-0.3A	100	4.00	300	100
CMU16H-102-9A	1	0.02	9000	100
CMU16H-202-7.5A	2	0.04	7500	100
CMU16H-502-6A	5	0.08	6000	100
CMU16H-103-4.5A	10	0.11	4500	100
CMU16H-203-3.5A	20	0.25	3500	100
CMU16H-203-3.5A	20	0.25	3500	100
CMU16H-503-1.5A	50	0.70	1500	100
CMU16H-104-1A	100	2.00	1000	100

•Recommended Classification Wave Soldering Profile

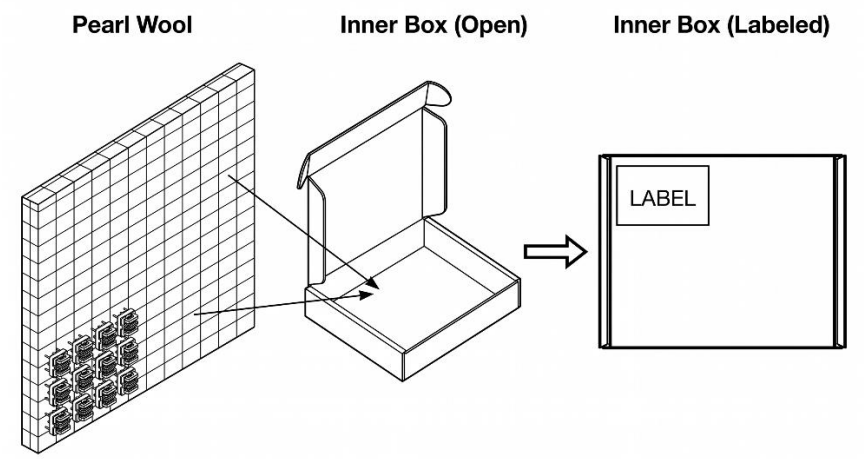


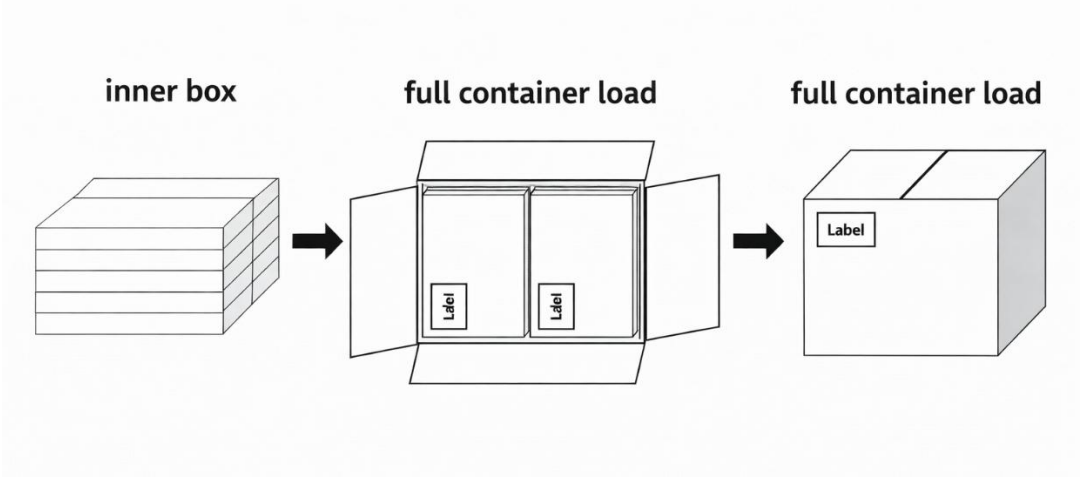
Profile Feature	Item	Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	Ts min	100 °C	
Preheat Temperature Typical	Ts typical	120 °C	
Preheat Temperature Max	Ts max	130 °C	
Preheat Time ts from Ts min to Ts max	ts	70 seconds	
Ramp-up Rate	Δ T	150 °C max.	
Peak Temperature	Tp	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	tp	max. 10 secondsmax. 5 seconds each wave	
Ramp-down Rate, Min		~ 2 K/ second	
Ramp-down Rate, Typical		~ 3.5 K/ second	
Ramp-down Rate, Max		~ 5 K/ second	
Time 25 °C to 25 °C		4 minutes	

•ATTENTION & CAUTION

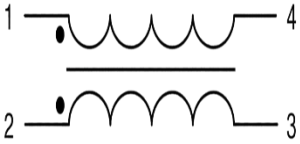
1.This components storage life is 12 months，Storage Temperature：TEMP.5~40℃；RH10%~75%. Please use this components within the warranty period. refer standard to: IEC_61760-2-2021.
2.Do not use this component in special environments, such as high salt content, strong acid, strong alkali, strong corrosion and other special environments.
3.Please preheat the product before welding; it is recommended to control the preheating temperature and welding temperature within 150℃. refer standard to: EN61760-1:2006.
4.When repairing this component, the temperature used for disassembly should not exceed the datasheet limit and do not disassemble it frequently to prevent damage to the component.
5.Do not use acetone or other corrosive liquids to contact this component or it will cause it to fail.
6.When this component is soldered to the circuit board, you need to pay attention to the stress applied to it by the PCB, which may cause it to fall off or damaged fail.
7.Self heating (Rate Current) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
8.Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
9.This magnetic component needs to be considered for coupling effects in the application.

•BOX PACKAGE





•Schematic



TYPE	Inner Box (pcs)	Carton (pcs)
CMU98	450	4500
CMU105	260	2600
CMU16	187	1870
CMU98H	336	3360
CMU105H	252	2520
CMU16H	150	1500

IMPORTANT NOTICE

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