



Version: 1.0 SPEC	FICATI	ON F	OR APPRC	VAL Rohs compliant
ITEM P/N CMW5045		5A-601	TEST INSTRUMENT	4291B <b>、</b> 4339B
PRODUCT	PRODUCT Common Choke Coil F		TEST FREQUENCY	100 MHz / 0.5V
CUST	OMER	:		
CUSTO	MER P/N	:		
DESCR	DESCRIPTION		on Choke Coil For	· Power Lines
Cyberr	Cybermax P/N		CMW5045A-6	01
REVIS	ION NO.	:	V1.0	
DA	DATE		2015/12/1	6
NO	NOTES		STANDARD	



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**CUSTOMER APPROVAL** 

company seals





#### $Z(\Omega)$ Withstand Insulation Rated Rated DCR (Ω) Point1-Point2 current Voltage Voltage Resistance point3-point4 P/N Vdc Vdc IR Impedance Idc(A) ±40% at 100MHz [ Max ] (V)Typical (MΩ)Min. (V)Typical CMW5045A-601 600 Typ. 4 0.019 50 125 10

Operating temperature : -40 to +85°C

Storage temp. and humidity : -40 to +85°C ,70%RH max

Typical Heat Rating DC Current would cause an approximately  ${}^{\scriptscriptstyle \vartriangle} T$  of 40°C

If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240 degrees, there will be unwitting risk Solder standard according to IPC-A-610D 8.2.1 Chip Components - Bottom Only Terminations



ITEM P/N CMW5045A-601 TEST INSTRUMENT 4291B \ 4339B   PRODUCT Common Choke Coll For Power Lines TEST FREQUENCY 100 MHz / 0.5V   PERFORMANCE CURVES	Version: 1.0	CHA	ARACTE	RISTICS	<b>RoHS</b> COMPLIANT	
PERFORMANCE CURVES	ITEM P/N C		MW5045A-601	TEST INSTRUMENT	4291B <b>、</b> 4339B	
Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the system     Image: space of the system   Image: space of the system   Image: space of the system   Image: space of the	PRODUCT Common Choke Co		Choke Coil For Power Lines	TEST FREQUENCY	100 MHz / 0.5V	
Image: Wight of the second	PERFORMAN	ICE CURVES				
L     5.5 ref.       H     4.6 ref.       G1     2.35 ref.	Recommende	(uuto) N 100 1 1	<sup>10</sup> FREQUENCY(MHz)			
H     4.6 ref.       G1     2.35 ref.	5045	Dimensions				
G1 2.35 ref.	L	5.5 ref.	- 0			
	Н	4.6 ref.				
G2 1.85 ref.	G1	2.35 ref.				
	G2	1.85 ref.				

#### **Electrical Performance**

No.	Item	Specifications	Test Method
7.1	Impedance ( Z ) (at 100MHz)	Meet item 3.	Measuring Equipment : 4291A or the equivalents. Measuring Frequency : 100MHz
7.2	Insulation Resistance (I.R.)		Measuring Equipment : R8340A or the equivalents. Test Voltage : 2times for Rated Voltage Time : within 60 s
7.3	DC Resistance (Rdc)		Measuring Current : 100 mA max. (In case of doubt in the above mentioned standard condition,measure by 4 terminal method.)
7.4	Withstanding Voltage	Products shall not be damaged.	Voltage : 125 V(DC) Time : 60 s Charge Current : 1 mA max.



Version: 1.0 RELIABILITY						
	ITEM P/N	CMW5045A-601	TEST INSTRUMENT	4291B、4339B		
	PRODUCT	Common Choke Coil For Power Lines	TEST FREQUENCY	100 MHz / 0.5V		
/lec	hanical Perform	hance				
No.	Item	Specifications	Tes	at Method		
1	Appearance and Dimensions		Visual Inspection and Calipers.	measured with Slide		
2	Bonding Strength and Core Strength	No evidence of chipping,breakage. No evidence of coming off glass-epoxy substrate.		F <b>↓</b> ☐ ← Substrate		
3	Body strength	No evidence of chipping,breakage.	Applying Force (F) : 10 Applying Time : 5 ± 1s	F		
			Test board	Substrate		
4	Bending Strength	Meet Table 1.     Table 1     Appearance   No damaged.     Impedance   within ± 20%     (at 10MHz)   10M Ω min.     Withstanding   No damaged.	Substrate : Glass-epo Deflection : 2.0mm Keeping Time : 30 s Speed of Applying For R34d F	cce : 0.5 mm/s essure jig Deflection		
5	Vibration	Voltage	Total Amplitude : 1.5m Testing Time : A perior 3 mutua	ered on the substrate. : 10 to 55 to 10Hz for 1 min.		
6	Drop			ped concrete or steel board.		
7	Solderability	The electrodes shall be at least 90% covered with new solder coating.	Flux : Ethanol solution Pre heating : 150 ± 10 Solder : (1) Sn/Pb = 60	of rosin,25(wt)% °C, 1 minute. D/40 (2) Sn-3.0Ag-0.5Cu (1)230±5°C (2)245±5°C 1s sion rates : 25mm/s		
8	Resistance to Soldering heat	Meet Table 1.	Flux : Ethanol solution Pre heating : 150 ± 10 Solder : Sn/Pb = 60/40 Solder Temperature : 2 Immersion Time : 5 ± 7 Immersion and Immers Then measured after e condition for 4 to 48 ho	°C, 1 minute. ) or Sn-3.0Ag-0.5Cu 270 ± 5°C 1s sion rates : 25mm/s exposure in the room		



Versi	Version: 1.0 RELIABILITY							
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	PRODUCT Common Choke Coil For Power Lines		TEST FREQUENCY	100 MHz / 0.5V				
Envi	Enviromental Performance							
(Proc	(Product shall be solderd on the glass-epoxy substrate (t=1.6mm)							
No.	Item	Specifications	Test Method					
1	Temperature Cycle	Meet Table 1.	1 cycle 1 step : -25 °C (+0, -3)°C / 30min (+ 3,- 0) n 2 step : Ordinary temp. / 3 min max. 3 step : +85 °C (+3, -0)°C / 30min (+ 3,- 0) n 4 step : Ordinary temp. / 3 min max. Total of 10 cycles Then measured after exposure in the room condition for 4 to 48 hours.					
2	Humidity		Temperature : 40 ± 2 Humidity : 90 to 95 % Time : 1000 h (+48 h Then measured after condition for 4 to 48	6(RH) ,-0 h) r exposure in the room				
3	Humidity Load		Temperature : 40 ± 2 Humidity : 90 to 95 % Test Voltage : Rated Time : 1000 h (+48 h Then measured after condition for 4 to 48	6(RH) Voltage , -0 h) r exposure in the room				
4	Heat life		Temperature : 85 ± 2 Test Voltage : 2times Time : 1000 h (+48 h	°C s for Rated Voltage , -0 h) exposure in the room				
5	Cold Resistance		Temperature : - 40 ± Time : 1000 h (+48 h Then measured after condition for 4 to 48 h	, -0 h) exposure in the room				

#### Terminal to be Tested When measuring and suppling the voltage, the following terminal is applied.

-		
No.	Item	Terminal to be Tested
1	Impedance ( Z )	 Terminal→♀( () () ()
2	(Measurement Terminal) DC Resistance (Rdc)	
2	(Measurement Terminal)	
3	Insulation Resistance (I.R.)	
	(Measurement Terminal)	[ <b></b>
4	Withstanding Voltage	Terminak→o
	(Measurement Terminal)	
5	Humidity Load (Supply Terminal)	
6	Heat Life (Supply Terminal)	







Version: 1.0	F	ACK	KIN	G F(	DR	SN	<b>ID</b>			RoHS COMPLIA	NT
ITEM P/N		CMW5045A-601 TEST INSTRUMENT						NT	4291B <b>、</b> 4339B		
PRODUCT     Common Choke Coil For Power Lines     TEST FREQUENCY     100 MHz / 0.5							0.5V				
eel Dimensi	on & Tap										
				Type V	V(mm)	D(mm)	C(mm)	T1(mm)	N(mm)	T2(mm)	E(mm)
	51			φ 330	330±1.5	21.5+0.5/-0	13+0.5-0.2	2.5+0.5/-0	100±1.5	16.9±0.4	2.00±0.5
	<i>p</i> y							-t0			
	<i>p</i> y		F(mm)	P0(mm) G	(mm)	P1(mm)			nm) [	D(mm)	H(mm)



Version: 1.0 PACKING FOR SMD							
ITEM P/N	С	4291B <b>、</b> 4339B					
PRODUCT	Common	Choke Coil For Power Lines	TEST FREQUENCY	100 MHz / 0.5V			
Packaging In	formation						
Chip Size	Chip/Reel						
CMW5045A	2500						

#### **Tearing Off Force**



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

Room Temp.	Room Humidity	Room atm	Tearing Speed	
(°C)	(%)	(hPa)	mm/min	
5~35	45~85	860~1060	300	

#### Application Notice

Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40°C and 60% RH.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.

#### Transportation

- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.