

Product Series Code : GSCM	Brand : GOTREND
File Version : GSCM-V1R3	Editor : Teddy
Established Date : 2016.03.31	Description : SMD Common Mode Choke
Latest Edit Date : 2017.09.22	Pages : 2 / 6

Features & Application :

1. As a transformer : SPEIC , flyback
2. As an inductor : buck , boost , coupled inductor
3. DC-DC converters
4. VRM inductor for CPU and DDR power supplies
5. Power / Signal line input and output filter chokes

Product Identify :

Pin Foot	EMI	Color	Made In
SMD	shield	Black	Taiwan

RoHS

Cd :	Max. 0.01wt%
Others:	Max. 0.01wt%

Haloge

Br :	Max. 900ppm wt
Cl :	Max. 900ppm wt
Br + Cl :	Max.1500ppm wt

Part No. Example :

PN	:	GSCM	706035	P - 701 - 2P	1		
----		-----	-----	-----	-----		
ID	:	1	2	3	4	5	6
1	:	GOTREND Series Code					
2	:	Dimension Code : 706035 = (L) 7.0 x (W) 6.0 x (H) 3.5 mm					
3	:	RoHS Compliant					
4	:	[Z] Value : Impedance 701 = 700 Ohm					
5	:	2P : Terminal Lines					
6	:	[1] : For customer special design					

Operating & Storage Condition :

- 1.Storage Condition : -40 ~ +85°C / RH 65 ± 10%
- 2.Storage Life Time : 6 Months @ 20°C / RH 65% (no seal off)
- 3.Operating Condition : -40 ~ +85°C (Including self-temperature rise)

Attention & Caution:

- * Keep out of splashing water or salt water
- * Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- * Vibrations or shocks which exceed the specified condition
- * Dew condense
- * Please be careful for the stress to this product by board flexure or something after the mounting.

Test Condition :

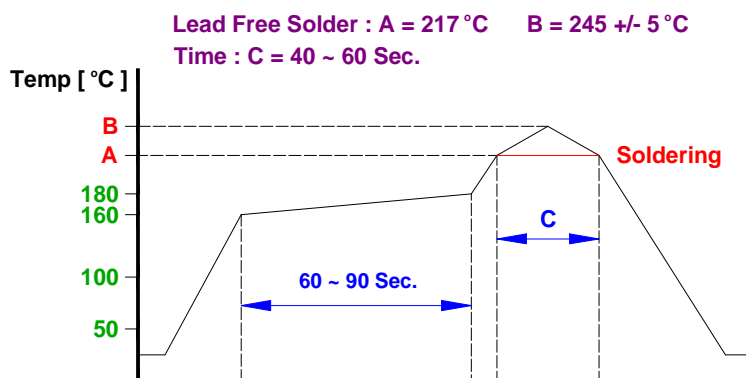
- Equipment :
- 1.L – WK3260 LCR Meter
 - 2.RDC – Twintex TM8089A
 - 3.IDC – WK3260 + 3265B DC-Bias
 - 4.Dimension - Mitutoyo
 - 5.Temperature – TECPEL 305A

Ambient : Temperature 20 ± 5 ° C
Humidity RH 65 ± 20%

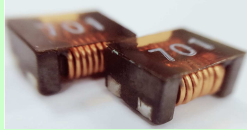
If there may be any doubt on the test result, Measurement shall be made within the following limits:

Ambient : Temperature 25 ± 5 ° C
Humidity RH 75 ± 10%

Recommend IR Reflow Curve : GTX-IR-FILE001

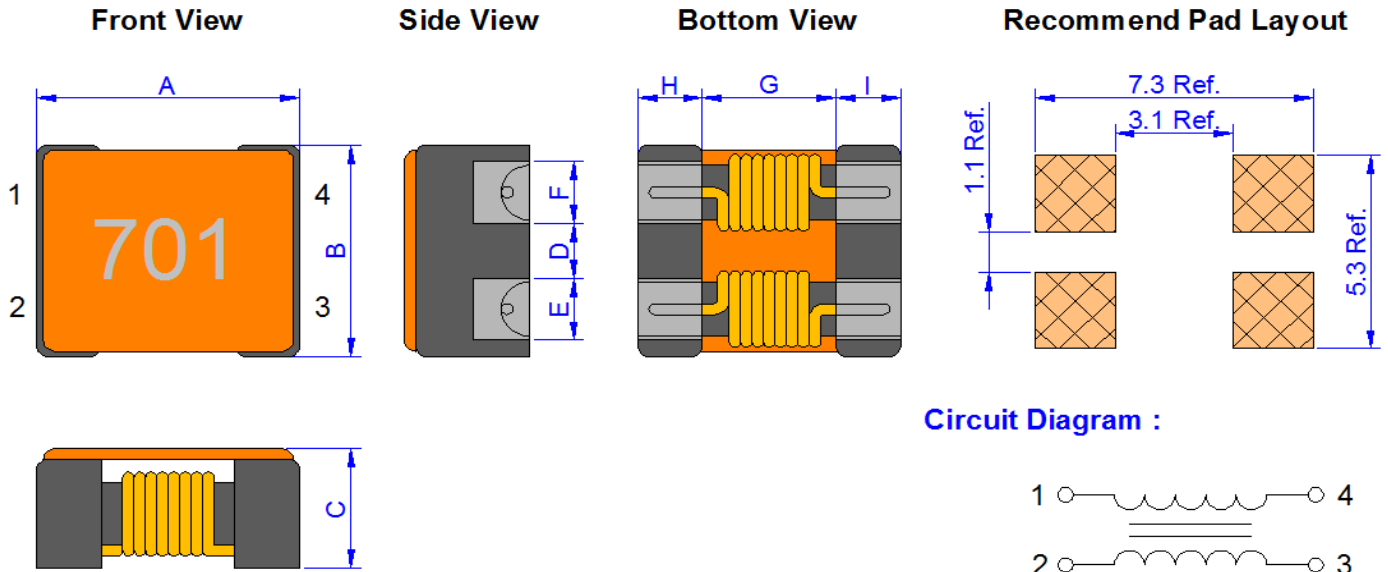


Notice : Iron Soldering , Solder < 30 Watt , Direct touch the terminal x 3 Sec. Max. @ 350° C

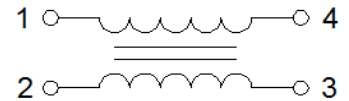


Product Series Code : GSCM	Brand : GOTREND
File Version : GSCM-V1R3	Editor : Teddy
Established Date : 2016.03.31	Description : SMD Common Mode Choke
Latest Edit Date : 2017.09.22	Pages : 3 / 6

Dimensions [mm] :



Circuit Diagram :

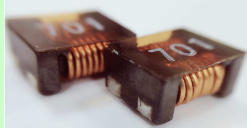


Size Code	A (+/-0.2)	B (+/-0.2)	C (Max.)	D (Typ.)	E (+/-0.3)	F (+/-0.2)	G (Ref.)	H (Ref.)	I (Ref.)
706035	7.00	6.00	3.50	1.50	1.70	1.70	3.50	1.70	1.70

Electrical Characteristics :

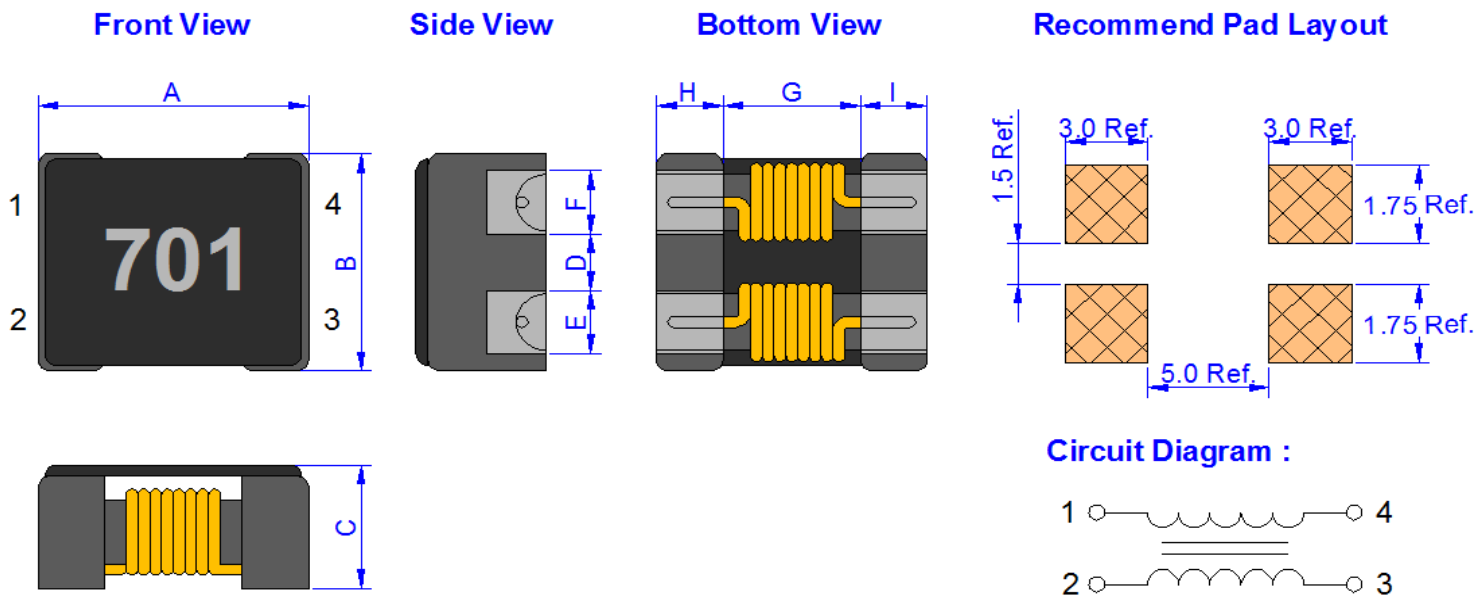
GOTREND PN	Impedance (Ω) at 100MHz		DC Resistance N1 , N2 (mΩ) Max.	Rated Current (A) Max.	Insulation Resistance (M Ohm) Min.	Rated Voltage (V) Max.	Marking
	Min.	Typ.					
706035P-101-2P1	100.0	140.0	10.0	9.0	10.0	80.0	101
706035P-301-2P1	225.0	300.0	10.0	5.0	10.0	80.0	301
706035P-501-2P1	275.0	500.0	10.0	5.0	10.0	80.0	501
706035P-601-2P1	450.0	600.0	15.0	4.0	10.0	80.0	601
706035P-701-2P1	500.0	700.0	15.0	4.0	10.0	80.0	701
706035P-901-2P1	700.0	900.0	20.0	3.0	10.0	80.0	901
706035P-102-2P1	800.0	1000.0	20.0	3.0	10.0	80.0	102
706035P-132-2P1	910.0	1300.0	25.0	2.5	10.0	80.0	132
706035P-302-2P1	2500.0	3000.0	75.0	1.0	10.0	80.0	302

Rated Current : The actual value of DC current when the top surface of test sample temperature rise is $\Delta T = 40^{\circ}C$ ($T_a = 25^{\circ}C$).



Product Series Code : GSCM	Brand : GOTREND
File Version : GSCM-V1R3	Editor : Teddy
Established Date : 2016.03.31	Description : SMD Common Mode Choke
Latest Edit Date : 2017.09.22	Pages : 4 / 6

Dimensions [mm] :

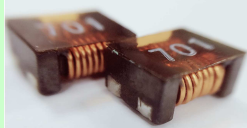


Size Code	A (+/-0.5)	B (+/-0.5)	C (Max.)	D (Typ.)	E (+/-0.2)	F (+/-0.2)	G (Ref.)	H (Ref.)	I (Ref.)
907045	9.00	7.00	4.50	1.50	1.50	1.50	5.70	1.70	1.70

Electrical Characteristics :

GOTREND PN	Impedance (Ω) at 100MHz		DC Resistance N1 , N2 (mΩ) Max.	Rated Current (A) Max.	Insulation Resistance (M Ohm) Min.	Rated Voltage (V) Max.	Marking
	Min.	Typ.					
907045P-301-2P1	225.0	300.0	6.0	6.0	10.0	80.0	301
907045P-501-2P1	450.0	600.0	8.0	5.5	10.0	80.0	501
907045P-701-2P1	500.0	700.0	10.0	5.0	10.0	80.0	701
907045P-102-2P1	750.0	1000.0	13.0	4.0	10.0	80.0	102
907045P-202-2P1	1700.0	2200.0	60.0	2.5	10.0	80.0	202
907045P-272-2P1	2000.0	2700.0	65.0	2.0	10.0	80.0	272
907045P-302-2P1	2500.0	3000.0	70.0	4.0	10.0	80.0	302

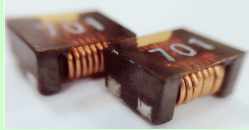
Rated Current : The actual value of DC current when the top surface of test sample temperature rise is $\Delta T = 40^{\circ}C$ ($T_a = 25^{\circ}C$).



Product Series Code : GSCM	Brand : GOTREND
File Version : GSCM-V1R3	Editor : Teddy
Established Date : 2016.03.31	Description : SMD Common Mode Choke
Latest Edit Date : 2017.09.22	Pages : 5 / 6

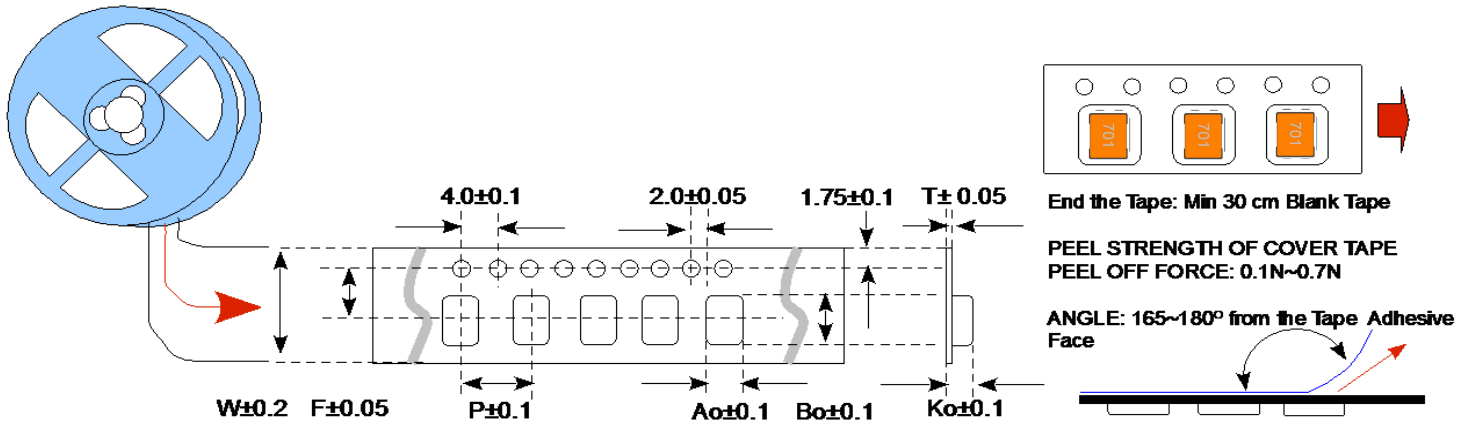
Reliability :

SN	Test Item	Test Condition	Specification		
1	Dimension	Actual Size ...	Meet Spec		
2	Thermal Shock (Temperature Cycle)	Temperature : -40°C/+85°C kept stabilized for 30 min. each Cycle : 100 Cycles (power off)	Elec. no variation Appearance no deformation		
3	Humidity Resistance	Humidity : 90% ~ 95% RH Temperature : 60 ± 2°C , Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
4	HighTemperature	Temperature : 85 ± 2°C Testing Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
5	Low Temperature	Temperature : -40 ± 2°C Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		
6	Temperature and Humidity Cycle	Temperature	Humidity	Time	Elec. no variation Appearance no deformation
		25°C	90% ~ 95% RH	3.0 Hr	
		55°C	95% ~ 96% RH	5.0 Hr	
		25°C	90% ~ 95% RH	3.0 Hr	
		Cycle : 20 Cycles			
7	Vibration	Frequency : 10Hz ~ 55Hz , Amplitude : 1.5 mm Direction : X , Y , Z , Time : 2 Hours each	Elec. no variation Appearance no deformation		
8	Solderability	Go through real SMT IR-Reflow The profile like our suggest profile. Preheat : 160 ± 10°C (90 sec) Peak : 245 ± 5°C Peak Time : 50 Sec. / up 217°C	Elec. no variation Appearance no deformation		
9	Soldering Heat Resistance	Preheat : 160 ± 10°C (90 sec) Solder : Sn / Ag / Cu (Pb Free) Solder Temp. : 260 ± 5°C , Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation		
10	Iron Solder Heat Resistance	Solder Temp. : 350 ± 5°C Flux : Rosin , Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation		
11	Bending Strength	<p>Unit : mm</p> <p>Force : 1Kg / min.</p>	Elec. no variation Appearance no deformation		
12	Flexure Strength	<p>Unit : mm</p> <p>Solder cream 0.15 mm</p>	Elec. no variation Appearance no deformation		
13	Terminal Strength	<p>Mount on PCB Solder Cream 0.15 mm</p> <p>Push 10N force to X , Y direction</p>	Elec. no variation Appearance no deformation		
14	High-Voltage	100 V DC between core & winding	Elec. no variation Appearance no deformation		
15	Load life	Temperature : 25 ± 3°C Load : Allowed DC Current , Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation		



Product Series Code : GSCM	Brand : GOTREND
File Version : GSCM-V1R3	Editor : Teddy
Established Date : 2016.03.31	Description : SMD Common Mode Choke
Latest Edit Date : 2017.09.22	Pages : 6 / 6

Package :

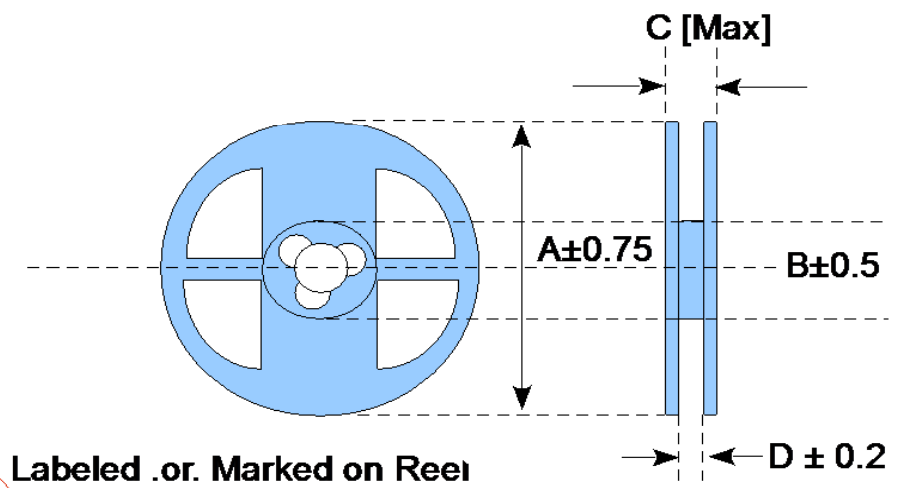


Size	W	P	Ao	Bo	Ko	T	F
706035	16.0	8.0	6.60	7.60	3.60	0.40	7.5
907045	16.0	12.0	7.60	9.60	4.60	0.40	7.5

1 2

3 GOTREND Label:
Cust Name:
PO:
PN:
Description:
Qty: Date:

4 Customer Label:
PN:
Bar Code:
PO:
Description:
.....etc.



Size	A	B	C	D	Reel Size	Qty / Reel
706035	330	100	20.4	16.4	13"	1500
907045	330	100	20.4	16.4	13"	1000

Unit : [cm]

6 Inner Small Box in Outer Large Box

1 Reel in Inner Small Box

