

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





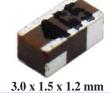


ACA-106-T



(Pb) RoHS / RoHS II Compliant





Moisture Sensitivity Level (MSL) – MSL = 1

FEATURES:

- Chip Antenna covering BEIDOU & GPS & GNSS bands from 1555MHz to 1610MHz
- Matching via lumped elements with single footprint
- Constructed from solid dielectric ceramic material
- Suitable for RoHS compliant reflow
- Peak Gain 2.56 ~ 3.28dBi (dependant on band)
- Average Gain $-1.59 \sim -0.83$ dBi (dependant on band)
- VSWR 3.0 : 1 max
- Size $-3.0 \times 1.5 \times 1.2 \text{mm}$ (0.11 x 0.059 x 0.047 inch)
- Non Ground Mounting type
- Linear Polarization
- Matched to 50 Ohm.

> APPLICATIONS:

- 1555 ~ 1565 MHz
 - Chinese BEIDOU band
 - 1.561098 GHz BEIDOU Band (B1)
- 1570 ~ 1580 MHz
 - GPS band
 - 1.57542 GHz GPS (L1 signal)
- 1565 ~ 1605 MHz
 - GPS and GNSS bands
 - 1.559 ~ 1.592 GHz GALILEO (E2-L1-E11)
 - 1.602 GHz GLONASS
- 1560 ~ 1610 MHz
 - BEIDOU, GPS and GNSS bands
 - 1.561098 GHz BEIDOU Band (B1)
 - 1.57542 GHz GPS (L1 signal)
 - 1.602 GHz GLONASS

STANDARD SPECIFICATIONS

Maximum Ratings

Item	Value
ESD Voltage	15kV [HBM Class 3B]
Operating Temperature Range	-40°C to + 85°C
Storage Temperature Range	-40°C to + 85°C

3D Electrical Characteristics for BEIDOU band

IT	EM	SPECIFICATION			
Frequen	cy Range	1555 ~ 1565MHz			
VS	WR	3: 1 Max			
Polar	ization	Linear			
Frequen	cy [MHz]	1555 1560 1565			
Gain	Peak	4.01	3.85	3.75	
[dBi]	Average	-1.28	-1.32	-1.43	
Efficie	ncy [%]	74.65 73.95 72.11			

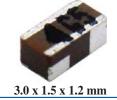
3D Electrical Characteristics ACA-106-T for GPS band.

IT	EM	SPECIFICATION		
Frequen	cy Range	1570 ~ 1580MHz		
VS	WR	3: 1 Max		
Polar	ization	Linear		
Frequen	cy [MHz]	1570 1575 1580		1580
Gain	Peak	2.70	2.56	2.73
[dBi]	Average	-0.73	-0.83	-0.62
Efficie	ncy [%]	84.55 82.63 86.73		



ACA-106-T





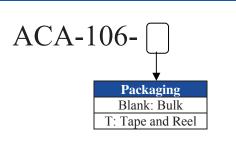
3D Electrical Characteristics for GPS & GNSS bands.

I'.	ГЕМ	SPECIFICATION					
Freque	ncy Range		1565 ~ 1605MHz				
V	SWR	3: 1 Max					
Pola	rization	Linear					
Freque	ncy [MHz]	1565	1575	1585	1595	1605	
Gain	Peak	3.35	3.53	3.60	4.02	3.59	
[dBi]	Average	-1.49	-1.59	-1.59	-1.22	-1.68	
Effici	ency [%]	7[%] 71.12 69.53 69.51 75.59 68.00				68.00	

3D Electrical Characteristics for BEIDOU, GPS & GNSS bands.

II	EM	SPECIFICATION					
Frequer	ncy Range	1560 ~ 1610MHz					
VS	SWR	3: 1 Max					
Polar	rization	Linear					
Frequency [MHz]		1560	1562	1574	1576	1598	1606
Gain	Peak	1.99	2.20	3.29	3.40	3.59	3.27
[dBi]	Average	-2.54	-2.47	-1.61	-1.51	-1.37	-1.93
Efficie	Efficiency [%] 55.77 56.76 69.18 70.80 73.07 64.22					64.22	

PART IDENTIFICATION:





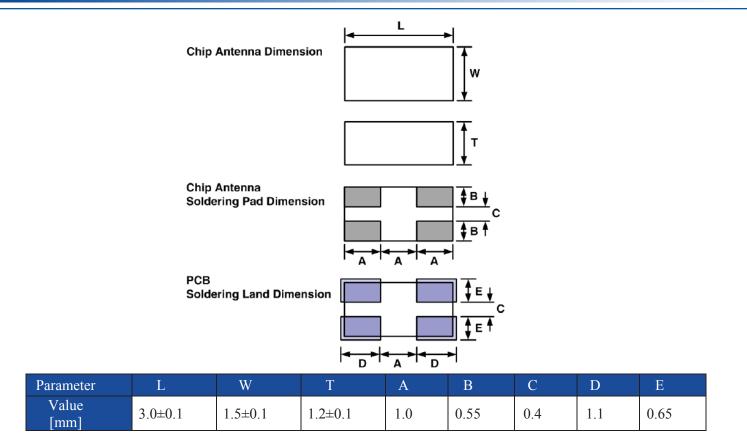


ACA-106-T





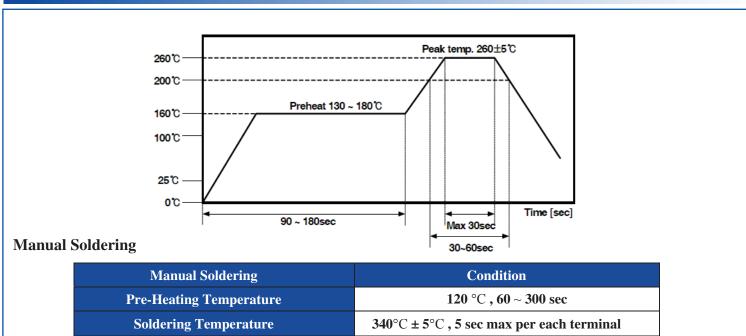
OUTLINE DIMENSIONS:



Unless Specified tolerances are ± 0.05 mm

(Dimensions: mm)

REFLOW PROFILE:

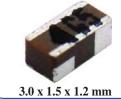






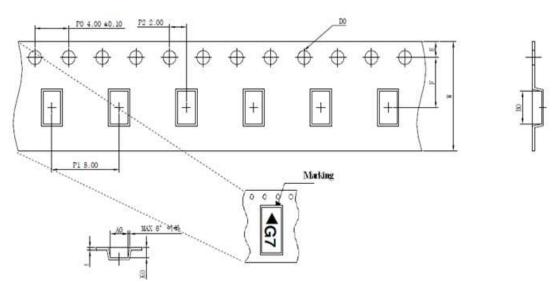
ACA-106-T



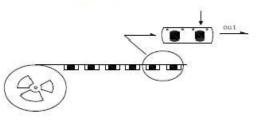




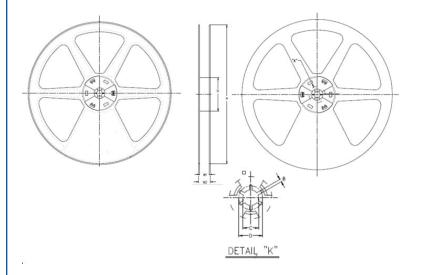




TAPE DIRECTION



A0	1.95±0.10	Е	1.75±0.10
В0	3.40±0.10	F	5.50±0.10
K0	1.40±0.10	t	0.3±0.05
D0	1.55±0.50	w	12.00±0.30



Size	24mm Reel [mm]
A	330 +0.2 /-2.0
В	2.0 +0.5 / -0.2
С	13.0 +0.5 / -0.0
D	20.2 Min
N	80 +3.0 / -0.0
W1	12.4 +3.0 / -0.0
W2	16.4 +2.0 / -2.0

(Dimensions: mm)

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



