BTCA Series



Features

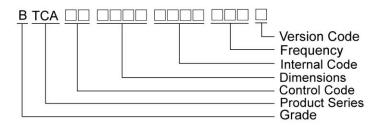
- Monolithic SMD with small
- Low-profile and light-weight type

Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

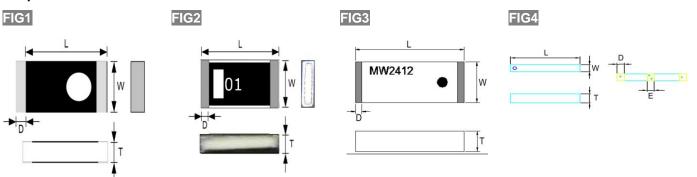
Applications

- Bluetooth
- 2.4GHz Wireless LAN
- Home RF
- Consumer electronic

Product Identification



Shape and Dimensions



Dimensions in mm

TYPE	FIG	L	w	D	т	E
BTCA003216080025GE	1	3.2±0.2	1.6±0.2	0.5±0.2	0.5±0.2	-
BTCA00321609002G4W	2	3.0±0.2	1.5±0.2	0.2±0.2	0.5±0.2	-
BTCA00321609005G0W	2	3.2±0.2	1.6±0.2	0.5±0.2	0.5±0.2	-
BTCA005020100025GM	3	5.0±0.4	2.0±0.4	0.3±0.2	1.0±0.2	-
BTCA00801001002G4A	4	8.0±0.3	1.0±0.3	0.85±0.2	1.2±0.3	0.75±0.2
BTCA0080100100GPSA	4	8.0±0.3	1.0±0.3	0.85±0.2	1.2±0.3	0.75±0.2

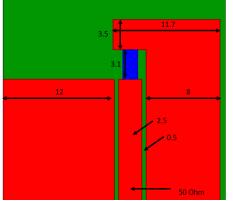


SMD Chip Series Antenna – BTCA Series

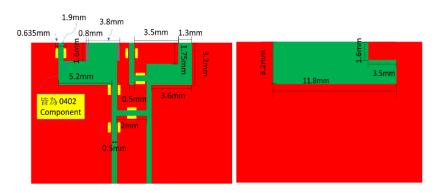
Recommended Pattern

BTCA00321609002G4W 6.5 3.8 2.3 -0.8 1 1.9 5.8

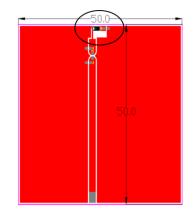
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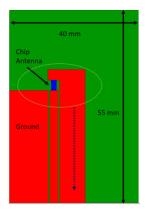


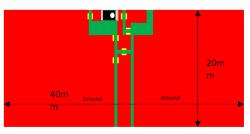
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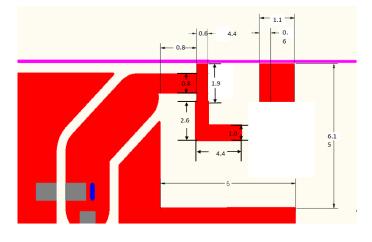
PC Board Pattern

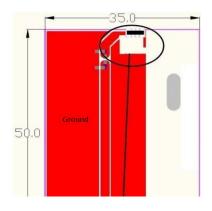






BTCA005020100025GM

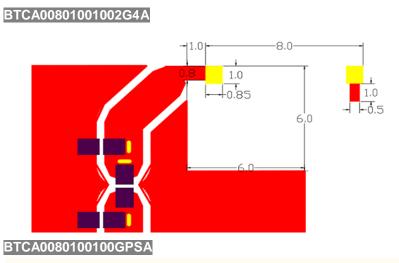




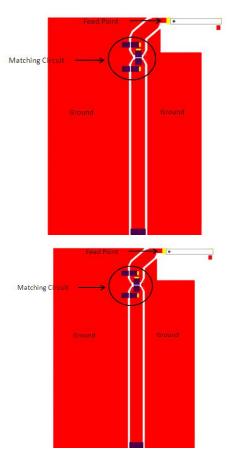


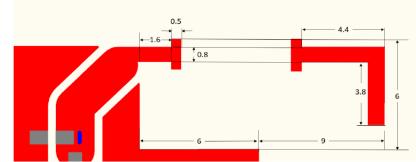
SMD Chip Series Antenna – BTCA Series

Recommended Pattern



PC Board Pattern







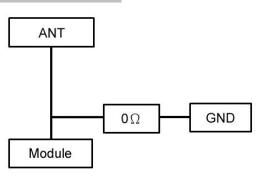
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (GHz)	Bandwidth* (MHz)	Peak Gain* (dBi)	VSWR (Max)	Polarization
BTCA00321609002G4W	50	2.4	100	0~1	2	Linear
BTCA00321609005G0W	50	5	100	-0.3~1.3	2	Linear
BTCA003216080025GE	50	2.4 5	100	1~2	2	Linear
BTCA005020100025GM	50	2.4 5	100	3.2	2	Linear
BTCA00801001002G4A	50	2.4	100	2~3	2	Linear
BTCA0080100100GPSA	50	1.57542	100	2~3	2	Linear

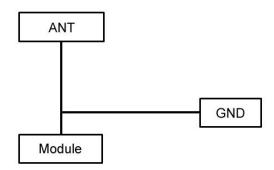
Note: *Depend on PCB layout.

Test Instruments: Agilent E4991A Material/Impedance Analyzer

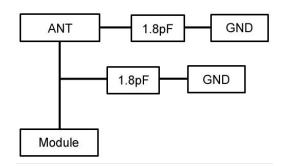
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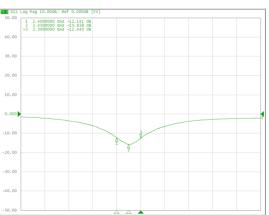


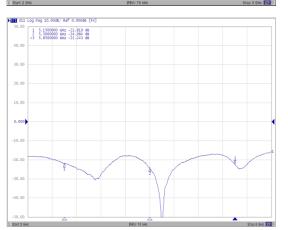
BTCA00321609005G0W

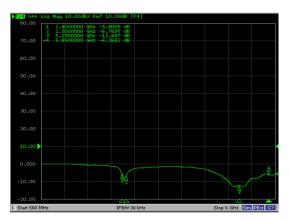


BTCA003216080025GE









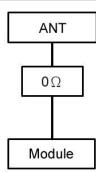
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.



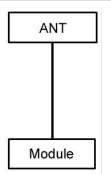
SMD Chip Series Antenna – BTCA Series

Test Instruments : Agilent E4991A Material/Impedance Analyzer

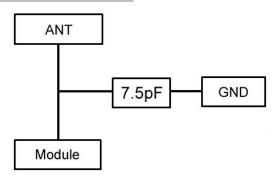
BTCA005020100025GM



BTCA00801001002G4A



BTCA0080100100GPSA



 111
 34 Log Mag 10.008/ Fef 0.0006/ F(4)

 9.00
 1
 2.000007 etc - 42.087 dB

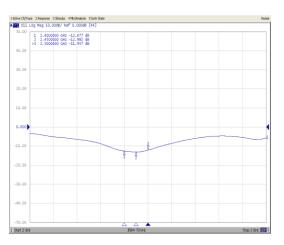
 1
 5.000
 1
 5.00000 etc - 42.087 dB

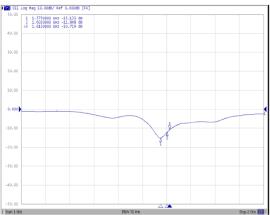
 1
 5.00000 etc - 42.087 dB
 1

 1
 5.00000 etc - 42.087 dB
 1

 1
 5.00000 etc - 42.087 dB
 1

 1
 5.00000 etc - 42.087 dB
 1

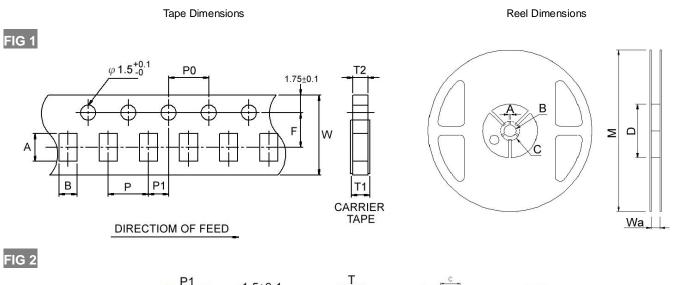




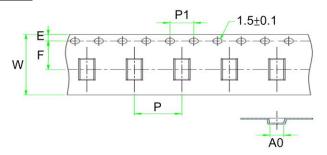
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Packaging Specifications



B0



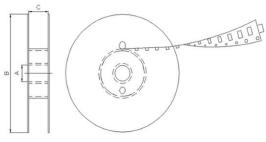
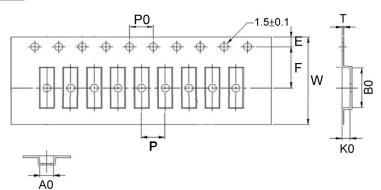
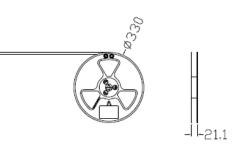


FIG 3





Dimensions

TYPE	FIC	Tape Dimensions								Reel Dimensions						Quantity	
TTPE	FIG A	Α	в	T1	w	Ρ	P0	P1	F	Т2	Wa	м	Α	в	С	D	PCS / REEL
BTCA00321605	4	3.5	1.0	0.75	8	4	4	2	3.5	0.75	9	178	2	13.5	21	60	5000
BTCA00321605	I	3.5	1.9	0.75	0	4	4	2	3.5	0.75	12	178	2	13.2	17.7	60	5000
		Tape Dimensions								Reel Dimensions							
TYPE	FIC				Tape	Dimen	sions					R	eel Di	mensio	ns		Quantity
ТҮРЕ	FIG	A0	B0	т	Tape I E	Dimen W	sions P	P0	F	K0	A	R	eel Di B	mensio C	ons	D	Quantity PCS / REEL
TYPE BTCA005020	FIG 2	A0 2.3	B0 5.3	T 0.3	•			P0	F 7.5	КО 1.3	A 100					D -	



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