MMELEC PRODUCT

SELECTION GUIDE

FUJIAN TORCH ELECTRON TECHNOLOGY CO.,LTD.
FUJIAN MM ELECTRONICS CO.,LTD.

IGNITE IDEAS

1 Electrical Characteristics

Operating Temperature	−55℃ to +125℃
Capacitance	Item / Frequency / Voltage $C_R \leq 100pF$ / 1MHz ± 10KHz / 1.0Vrms ± 0.2V $C_R > 100pF$ / 1KHz ± 50Hz / 1.0Vrms ± 0.2V
Dissipation Factor	
Insulation Resistance	Rated voltage applied for 120 ± 5secs,charge and discharge current limited to 50mA (max).
Dielectric Strength	250% of rated voltage for 3 seconds (150% of rated voltage with BS dielectric) ,charging and discharging current shall be 50mA or less.

2 Temperature Characteristics

Type	Dielectric	Temperature Characteristics	Dissipation Factor Max.	Insulation Resistance (MΩ)	
				@25℃	@125℃
CC(Class Ⅰ)	BP	(0 ± 30) ppm/℃	0.15% or 0.7%	$>10^6$	$>10^5$
	BU	(-750 ± 250) ppm/℃	0.5%	$>10^6$	$>10^5$
	BV	(-1500 ± 500) ppm/℃	0.25%	$>10^6$	$>10^5$
	BK	(-2400 ± 500) ppm/℃	0.5%	$>10^6$	$>10^5$
	BD	(-3700 ± 1000) ppm/℃	1.2%	$>10^6$	$>10^5$
	BE	(-4700 ± 1000) ppm/℃	1.2%	$>10^6$	$>10^5$
CT(Class Ⅱ)	BX	±15%	3.0%	$>10^5$	$>10^4$
	BY	±15%	3.0%	$>10^5$	$>10^4$
	YF	(+30%~-80%) *	4.0%	$>10^5$	$>10^4$
CS(Class Ⅲ)	BS	±15%	2.5%	$>10^3$	$>10^2$

*The test temperature rang from 10℃ to 85℃

3 Termination

P: Titanium Tungsten/Gold

T: Titanium Tungsten/Nickel/Gold

S:Contact us for special termination styles.

4 Performance & Reliability Test Methods

Item	Reference
Temperature Cycling	MIL－STD－202 Method 107
Accelerated Steady State Aging	MIL-PRF-49464C Method 4.8.3.2
Wire Bondability	MIL－STD－883 Method 2011
Bond Strength	MIL－STD－883 Method 2019
Temperature Characteristic	MIL-PRF-49464C Method 4.8.10
Immersion Cycling	MIL－STD－202 Method 104
High Temperature Life	MIL－STD－202 Method 108
Fungus Resistance	MIL－STD－810 Method 508
Biased Humidity	MIL-PRF-49464C Method 4.8.12

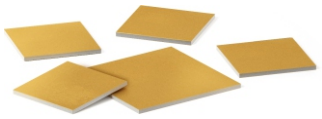
SINGLE LAYER CERAMIC DIELECTRIC
CAPACITORS

1 Features

Straight-Sided design offers the highest capacitance per size.

Typical applications include DC Blocking, RF Bypass, Filtering and Tuning.

Capacitance ranging from 0.03pF to 13000pF.



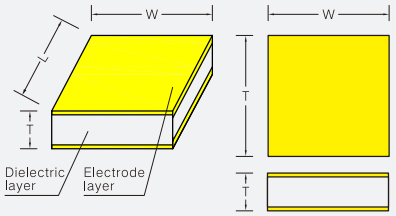
2 Part Number

CC1101 — 20 — BP — 100V — 0R1 — B — C — P — A

Series	Case size	Dielectric	Rated Voltage	Capacitance	Capacitance Tolerance	Product Type	Termination	Test Level*
CC1101 CT1101 CS1101	Refer to Dimen-sions	BP、BU、 BV、BK、 BD、BE、 BX、BY、 YF、BS	16V、 25V、 50V、 100V	Refer to Capacitance and Rated Voltage Range. 0R1=0.1pF 1R2=1.2pF 100=10pF 221=220pF	A: ± 0.05pF B: ± 0.10pF C: ± 0.25pF D: ± 0.50pF G: ± 2% J: ± 5% K: ± 10% M: ± 20% Z:-20%~+80%	C= Straight -Sided	P=TiW/Au T=TiW/Ni/Au S=Special Termination	A or C Blank =No available

*Please contact us for test level.

3 Dimensions

Appearance	Case Size	L(mm)	W(mm)	Tmax.(mm)
	10	0.254 ± 0.076	0.254 ± 0.076	0.35
	15	0.381 ± 0.127	0.381 ± 0.127	
	20	0.508 ± 0.127	0.508 ± 0.127	
	25	0.635 ± 0.127	0.635 ± 0.127	
	30	0.762 ± 0.127	0.762 ± 0.127	
	35	0.889 ± 0.127	0.889 ± 0.127	
	40	1.012 ± 0.127	1.012 ± 0.127	
	50	1.270 ± 0.127	1.270 ± 0.127	
	70	1.778 ± 0.254	1.778 ± 0.254	
	90	2.286 ± 0.254	2.286 ± 0.254	

4 Typical Capacitance and Rated Voltage Range

Class Ⅰ & Ⅱ

Case Size	10		15		20		25		30		35		40		50		70		90		Tolerance
Rated voltage(V)	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
0R1	BP	BP			BP	BP															A、B
0R6	BV	BV	BU	BU																	B、C
0R8	BD	BD	BK	BK	BP	BP															B、C
1R0	BD	BD	BK	BK	BP	BP															B、C
1R2	BD	BD	BK	BK	BK	BK															B、C
1R8	BD	BD	BD	BD	BK	BK															B、C
2R0	BD	BD	BD	BD	BK	BK															B、C、D
3R0	BE	BE	BD	BD	BK	BK															C、D
3R6	BE	BE	BD	BD	BK	BK															C、D
3R9	BE	BE	BD	BD	BK	BK															C、D
4R3	BE	BE	BD	BD	BK	BK															C、D
4R7	BE	BE	BD	BD	BK	BK															C、D
5R1	BE	BE	BD	BD	BK	BK															C、D
8R2	BX	BX	BE	BE	BD	BD															C、D
100	BX	BX	BE	BE	BD	BD															G、J、K
150	BY	BY	BX	BX	BX	BX															G、J、K
180	BY	BY	BX	BX	BX	BX															G、J、K
200			BY	BY	BX	BX	BX	BX													J、K
220			BY	BY	BY	BY	BX	BX													J、K
270	YF	YF	BY	BY	BY	BY															J、K
300	YF	YF	BY	BY	BY	BY															J、K
330	YF	YF	BY	BY	BY	BY															J、K
390	YF	YF	BY	BY	BY	BY															J、K
420	YF	YF	BY	BY	BY	BY															J、K
470	YF	YF			BY	BY	BY	BY													J、K
500			YF	YF	BY	BY	BY	BY													J、K、M
560			YF	YF	BY	BY															J、K、M
680			YF	YF			BY	BY													J、K、M
101			YF	YF	YF	YF	BY	BY													J、K、M
121					YF	YF	BY	BY													K、M
151					YF	YF	BY	BY													K、M
181							YF	YF													K、M
201							YF	YF													K、M
221							YF	YF													K、M
241							YF	YF													K、M
301									YF	YF											K、M
331									YF	YF											K、M
471											YF	YF			BY	BY	BY	BY			K、M
681													YF	YF							M
102															YF	YF	YF	YF	YF	YF	M

Class Ⅲ

Case Size	10		15		20		25		30		35		40		50		70		90		Tolerance
Rated voltage(V)	25	50	25	50	25	50	25	50	25	50	25	50	25	50	25	50	16	25	16	25	
101	BS			BS																	K、M
121	BS			BS																	K、M
151	BS			BS																	K、M
181			BS	BS																	K、M
221			BS			BS															M
271			BS			BS															M
331			BS					BS													M
391					BS			BS													M
471					BS			BS													M
561					BS					BS											M
681							BS			BS											M
821							BS					BS									M
102									BS			BS		BS							M
122									BS					BS							M
152											BS					BS					M
182													BS			BS					M
222													BS			BS					M
272															BS			BS			M
332															BS			BS			M、Z
392															BS					BS	M、Z
472																	BS			BS	M、Z
562																	BS				M、Z
682																	BS				M、Z
822																			BS		M、Z
103																			BS		M、Z

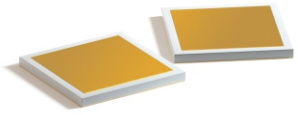
Note:Please contact us for more specifications.

1 Features

Recessed metallization minimize potential shorting from epoxy or solder attachments.

Typical applications include DC Blocking, RF Bypass, Filtering and Tuning.

Capacitance ranging from 0.03pF to 10000pF.



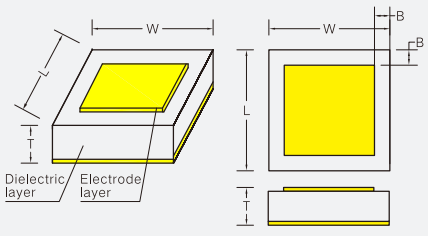
2 Part Number

CC1101 — 20 — BP — 100V — 0R1 — B — B — P — A

Series	Case size	Dielectric	Rated Voltage	Capacitance	Capacitance Tolerance	Product Type	Termination	Test Level*
CC =Class Ⅰ CT = Class Ⅱ CS = Class Ⅲ	Refer to Dimen-sions	BP、BU、BV、BK、BD、BE、BX、BY、YF、BS	16V、25V、50V、100V	Refer to Capacitance and Rated Voltage Range. 0R1=0.1pF 1R2=1.2pF 100=10pF 221=220pF	A: ± 0.05pF B: ± 0.10pF C: ± 0.25pF D: ± 0.50pF G: ± 2% J: ± 5% K: ± 10% M: ± 20% Z:-20%~+80%	B= Recessed Metalliza-tion	P=TiW/Au T=TiW/Ni/Au S=Special Termination	A or C Blank =No available

*Please contact us for test level.

3 Dimensions

Appearance	Case Size	L(mm)/W(mm)	B(mm)	Tmax.(mm)
	10	0.254 ± 0.076	$0.025^{+0.025}_{-0.013}$	0.35
	15	0.381 ± 0.127	$0.051^{+0.051}_{-0.038}$	
	20	0.508 ± 0.127	$0.051^{+0.051}_{-0.038}$	
	25	0.635 ± 0.127	$0.051^{+0.051}_{-0.038}$	
	30	0.762 ± 0.127	$0.051^{+0.051}_{-0.038}$	
	35	0.889 ± 0.127	$0.051^{+0.051}_{-0.038}$	
	40	1.016 ± 0.127	$0.051^{+0.051}_{-0.038}$	
	50	1.270 ± 0.127	$0.051^{+0.051}_{-0.038}$	

4 Typical Capacitance and Rated Voltage Range

Class Ⅰ & Ⅱ

Case Size	10		15		20		25		30		35		40		50		Tolerance
Rated voltage(V)	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	
0R1	BP	BP			BP	BP											A、B
0R6	BV	BV	BU	BU													B、C
0R8			BD	BD	BK	BK	BP	BP									B、C
1R0			BD	BD	BK	BK	BP	BP									B、C
1R2			BD	BD	BK	BK	BK	BK									B、C
1R8			BD	BD	BD	BD	BK	BK									B、C
2R0			BD	BD	BD	BD	BK	BK									B、C、D
3R0			BE	BE	BD	BD	BK	BK									C、D
3R6			BE	BE	BD	BD	BK	BK									C、D
3R9			BE	BE	BD	BD	BK	BK									C、D
4R3			BE	BE	BD	BD	BK	BK									C、D
4R7			BE	BE	BD	BD	BK	BK									C、D
5R1			BE	BE	BD	BD	BK	BK									C、D
8R2			BX	BX	BE	BE	BD	BD									C、D
100			BX	BX	BE	BE			BD	BD							G、J、K
150			BY	BY	BX	BX	BX	BX									G、J、K
180			BY	BY	BX	BX	BX	BX									G、J、K
200					BY	BY	BX	BX	BX	BX							J、K
220					BY	BY	BY	BY	BX	BX							J、K
270			YF	YF	BY	BY	BY	BY									J、K
300			YF	YF	BY	BY	BY	BY									J、K
330			YF	YF	BY	BY	BY	BY									J、K
390			YF	YF	BY	BY	BY	BY									J、K
420			YF	YF	BY	BY	BY	BY									J、K
470			YF	YF			BY	BY	BY	BY							J、K
500					YF	YF	BY	BY	BY	BY							J、K、M
560					YF	YF	BY	BY									J、K、M
680					YF	YF			BY	BY							J、K、M
101					YF	YF	BY	BY	BY	BY							J、K、M
121							YF	YF									K、M
151									YF	YF							K、M
181									YF	YF							K、M
201									YF	YF							K、M
221									YF	YF							K、M
241									YF	YF							K、M
301											YF	YF					K、M
331											YF	YF					M
471											YF	YF	YF	YF			M
681													YF	YF	YF	YF	M

Class Ⅲ

Case Size	10		15		20		25		30		35		40		50		Tolerance
Rated voltage(V)	25	50	25	50	25	50	25	50	25	50	25	50	25	50	25	50	
680	BS			BS													K、M
101	BS			BS													K、M
121	BS			BS													K、M
151	BS			BS													K、M
181			BS			BS											K、M
221			BS			BS											M
271			BS					BS									M
331					BS			BS									M
391					BS			BS									M
471					BS					BS							M
561							BS			BS							M
681							BS					BS					M
821									BS			BS		BS			M
102									BS					BS			M
122											BS					BS	M
152													BS			BS	M
182													BS			BS	M
222															BS		M
272															BS		M
332															BS		M、Z

Note:Please contact us for more specifications.

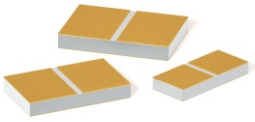
1 Features

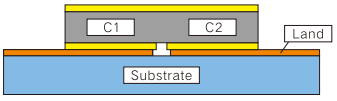
Twinb CAP configuration eliminates wirebonding.

The low insertion loss and high resonant frequencies.

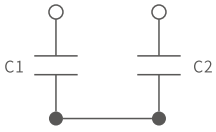
Typical applications include DC Blocking, RF Bypassing and Elimination of wirebond.

Capacitance ranging from 0.5pF to 1000pF.





C1=C2 Equivalent Series Capacitance = $\frac{C1}{2}$



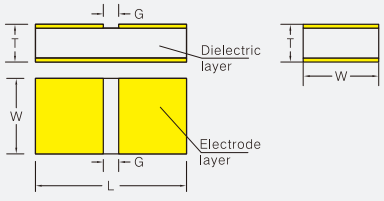
2 Part Number

CC1101 — D — 0603 — BP — 100V — 0R5 — B — P — A

Series	Product Type	Case size	Dielectric	Rated Voltage	Capacitance	Capacitance Tolerance	Termination	Test Level*
CC =Class I CT = Class II CS = Class III	D=Twin CAP	Refer to Dimensions	BP、BU、BV、BK、BD、BE、BX、BY、YF、BS	16V、25V、50V、100V	Refer to Capacitance and Rated Voltage Range. 0R1=0.1pF 1R2=1.2pF 100=10pF 221=220pF	B=±0.1pF C=±0.25pF D=±0.5pF G=±2% J=±5% K=±10% M=±20% Z=-20%~+80%	P=TiW/Au T=TiW/Ni/Au S=Special Termination	A or C Blank =No available

*Please contact us for test level.

3 Dimensions



Case Size	L(mm)	W(mm)	T(mm)	G(mm)
0201	0.508±0.076	0.254±0.076	0.178±0.050	0.203±0.050
0402	1.016±0.127	0.508±0.127	0.178±0.050	0.203±0.050
0603	1.524±0.127	0.762±0.127	0.178±0.050	0.508±0.127
0805	2.032±0.127	1.270±0.127	0.178±0.050	0.508±0.127

4 Typical Capacitance and Rated Voltage Range

Class Ⅰ & Ⅱ

Case Size	0201		0402		0603		0805		Tolerance
Rated voltage(V)	50	100	50	100	50	100	50	100	
0R5	BK	BK	BU	BU	BP	BP			B、C
1R0	BD	BD	BV	BV	BP	BP			B、C
1R5	BE	BE	BK	BK	BV	BV			B、C
2R0	BX	BX	BD	BD	BK	BK			B、C
3R6	BX	BX	BD	BD	BV	BV			B、C
3R9	BX	BX	BD	BD	BD	BD			B、C
4R3	BX	BX	BX	BX	BD	BD			B、C
4R7	BX	BX	BX	BX	BE	BE			C、D
5R1	BX	BX	BX	BX	BE	BE			C、D
8R2			BX	BX	BX	BX			C、D
100			BX	BX	BX	BX			J、K
150	YF	YF	BX	BX	BX	BX			J、K
180	YF	YF	BX	BX	BX	BX			J、K
200			BX	BX	BX	BX			J、K
220			BX	BX	BX	BX			J、K
270			BY	BY	BX	BX			J、K
300			BX	BX	BX	BX			J、K
330			BX	BX	BX	BX			J、K
390			YF	YF	BX	BX			J、K
420			YF	YF	BX	BX			J、K
470			YF	YF	BY	BY			J、K
500			YF	YF	BY	BY			K、M
560			YF	YF	BY	BY			K、M
680			YF	YF	BY	BY			K、M
101					YF	YF			K、M
121					YF	YF			K、M
151					YF	YF			K、M

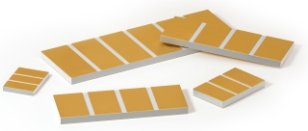
Class Ⅲ

Case Size	0201		0402		0603		0805		Tolerance
Rated voltage(V)	25	50	25	50	25	50	16	25	
300	BS								J、K
330	BS								J、K
390	BS								J、K
420	BS								J、K
470	BS								J、K
500	BS								K、M
560	BS								K、M
680									K、M
101			BS						K、M
121			BS						K、M
151			BS						K、M
181			BS		BS				K、M
201			BS		BS				K、M
221					BS				K、M
241					BS				K、M
301					BS				K、M
331					BS				M
471					BS				M
681							BS		M
102							BS		M、Z

Note:Please contact us for more specifications.

1 Features

Designed for MMIC circuits requiring multiple capacitor applications.
Typical applications include Decoupling, DC Blocking, RF Bypassing.
Capacitance ranging from 22pF to 1000pF.



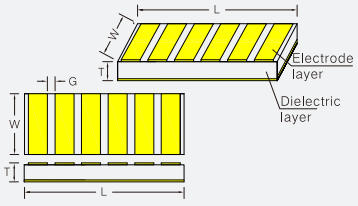
2 Part Number

CT1101 — E — 20 — BX — 100V — 220 — M — P — 3 — A

Series	Product Type	Case size	Dielectric	Rated Voltage	Capacitance	Capacitance Tolerance	Termination	Number of Caps	Test Level*
CT= Class Ⅱ CS= Class Ⅲ	E= Multiple capacitor array	Refer to Dimen-sions	BX、BY、YF、BS	16V、25V、50V、100V	Refer to Capacitance and Rated Voltage Range. 0R1=0.1pF 1R2=1.2pF 100=10pF 221=220pF	M=±20% Z= -20%~+80%	P= TiW/Au T= TiW/Ni/Au S= Special Termination	3 4 6	A or C Blank =No available

*Please contact us for test level.

3 Dimensions



Case Size	W(mm)	L(mm)			Tmax.(mm)	G(mm)
		3 Caps	4 Caps	6 Caps		
15	0.381±0.076	1.651±0.127	2.159±0.127	3.175±0.127	0.28	0.127±0.025
20	0.508±0.076					
25	0.635±0.076					
35	0.889±0.076					

4 Typical Capacitance and Rated Voltage Range

Class Ⅱ

Case Size	15		20		25		35		Tolerance
Rated voltage(V)	50	100	50	100	50	100	25	50	
220	BX	BX	BX	BX					M、Z
330	BX	BX	BX	BX					M、Z
470	YF	YF	BY	BY					M、Z
680	YF	YF	BY	BY					M、Z
101					YF	YF			M、Z

Class Ⅲ

Case Size	15		20		25		35		Tolerance
Rated voltage(V)	25	50	25	50	25	50	25	50	
101	BS								M、Z
121	BS								Z
151	BS								Z
181	BS								Z
201	BS								Z
241	BS								Z
301			BS						Z
331			BS						Z
471			BS						Z
681					BS				Z
102							BS	BS	Z

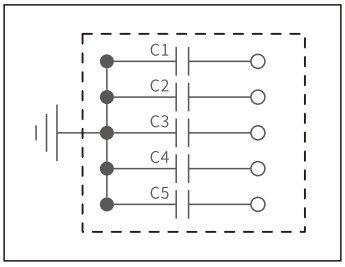
Note:Please contact us for more specifications.

1 Features

Small size is compatible with microwave geometries.

Typical applications include Matching Networks,Tank Cicuits,Coupling and Tuning.

Capacitance ranging from 0.5pF to 33pF.



C1=1
C2=2xC1
C3=4xC1
C4=8 xC1
C5=16 xC1

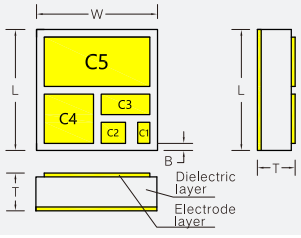
2 Part Number

CC1101 — F — 20 — BU — 100V — 0R1 — M — P — 3 — A

Series	Product Type	Case size	Dielectric	Rated Voltage	Capacitance	Capacitance Tolerance	Termination	Number of Caps	Test Level*
CC= Class Ⅰ CT= Class Ⅱ CS= Class Ⅲ	F= Binary Tunable Caps	Refer to Dimen-sions	BP、BU、 BV、BK、 BD、BE、 BX、BY、 YF、BS	16V、 25V、 50V、 100V	Refer to Capacitance and Rated Voltage Range. 0R1=0.1pF 1R2=1.2pF 100=10pF 221=220pF	K=±10% M=±20% Z= -20%~+80%	P= TiW/Au T= TiW/Ni/Au S= Special Termination	3 4 5	A or C Blank =No available

*Please contact us for test level.

3 Dimensions



Case Size	L(mm)	W(mm)	T(mm)	B(mm)
20	0.508±0.076	0.508±0.076	0.178±0.050	0.051±0.025
25	0.635±0.076	0.635±0.076	0.178±0.050	
30	0.762±0.076	0.762±0.076	0.178±0.050	
35	0.889±0.076	0.889±0.076	0.178±0.050	
40	1.012±0.076	1.012±0.076	0.178±0.050	

4 Typical Capacitance and Rated Voltage Range

Case Size	L x W x T	Number of Caps	Capacitance Range(pF)	Typical Capacitance(pF)
20	0.508 × 0508 × 0.178	3	0.1 ~ 25	0.5、0.75、1.0、15
25	0.635 × 0.635 × 0.178	3	0.1 ~ 50	0.5、0.75、1.0、15、22
30	0.762 × 0.762 × 0.152	4	0.1 ~ 40	0.5、0.75、1.0、15、22、23
35	0.889 × 0.889 × 0.178	4	0.1 ~ 60	0.5、0.75、1.0、15、22、23、47
40	1.012 × 1.012 × 0.178	5	0.1 ~ 40	0.5、0.75、1.0、15、22、33

Note:Please contact us for more specifications.

TEMPERATURE COMPENSATION
ATTENUATOR

1 Specifications

Impedance:50mΩ

Frequency Range:DC to 6GHz

VSWR@1GHz@25℃:1.30max

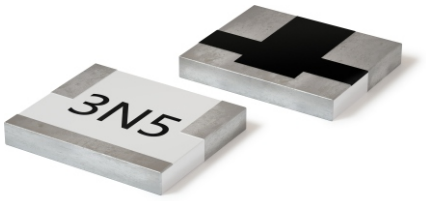
Power Rating:2W

Operating Temperature:-55°C to +150°C

Attenuation Tolerance:±0.5dB

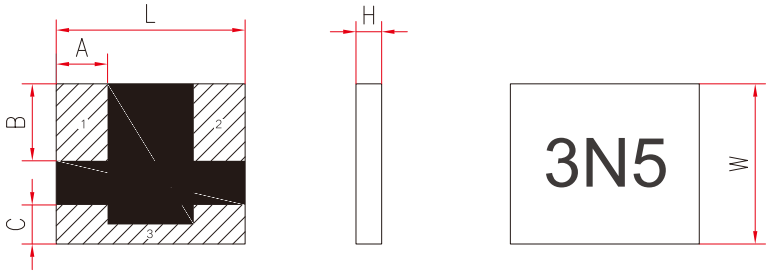
Temperature Coefficient of Attenuation(TCA):

From -0.009 to -0.003



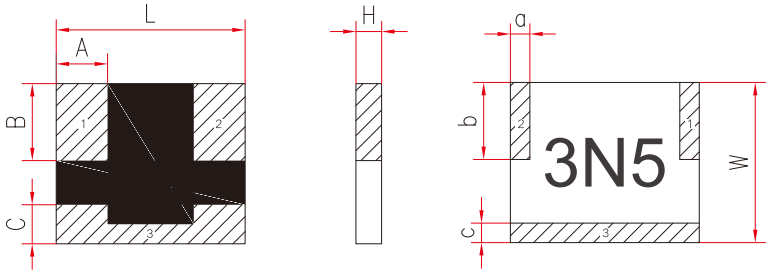
2 Mounting Style and Dimensions

Planar Style



Style code:G or W0

Triple Wrap Style

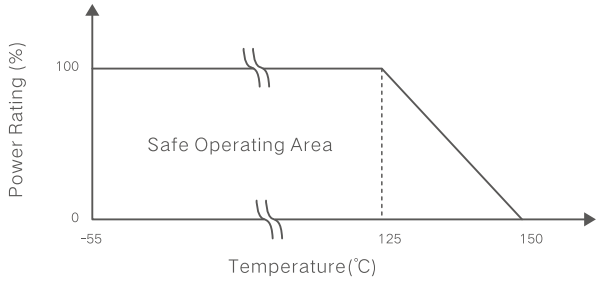


Style code:W3

Unit:mm

Style code	L	W	H	A	B	C	a	b	c
W3	3.73±0.12	3.12±0.12	0.53±0.07	1.02±0.12	1.52±0.12	0.76±0.12	0.38±0.12	1.56±0.12	0.38±0.12
W0	3.68±0.12	3.12±0.12	0.53±0.07	1.02±0.12	1.52±0.12	0.76±0.12	/	/	/
G	3.68±0.12	3.12±0.12	0.53±0.07	1.02±0.12	1.52±0.12	0.76±0.12	/	/	/

3 Power Rating and Derating



4 Available Attenuation and TCA Range

TCA (dB/dB/℃)	Attenuation at 25℃									
	1dB	2dB	3dB	4dB	5dB	6dB	7dB	8dB	9dB	10dB
-0.003	01N03	02N03	03N03	04N03	05N03	06N03	07N03	08N03	09N03	10N03
-0.004	01N04	02N04	03N04	04N04	05N04	06N04	07N04	08N04	09N04	10N04
-0.005	01N05	02N05	03N05	04N05	05N05	06N05	07N05	08N05	09N05	10N05
-0.006	01N06	02N06	03N06	04N06	05N06	06N06	07N06	08N06	09N06	10N06
-0.007	01N07	02N07	03N07	04N07	05N07	06N07	07N07	08N07	09N07	10N07
-0.008	01N08	02N08	03N08	04N08	05N08	06N08	07N08	08N08	09N08	10N08
-0.009	01N09	02N09	03N09	04N09	05N09	06N09	07N09	08N09	09N09	10N09

5 Part Number

TVA	03	N05	W3	L	B	A
Series	Attenuation	TCA Code	Mounting Style	Termination Finish	Packing	Test Level*
TVA	01=1dB 02=2dB 03=3dB 04=4dB 05=5dB 06=6dB 07=7dB 08=8dB 09=9dB 10=10dB	N03=-0.003dB/dB/℃ N04=-0.004dB/dB/℃ N05=-0.005dB/dB/℃ N06=-0.006dB/dB/℃ N07=-0.007dB/dB/℃ N08=-0.008dB/dB/℃ N09=-0.009dB/dB/℃	W3=Triple Wrap W0= Planar G=Planar Gold	L=100% Tin F= Tin/Lead Alloy (No available on G style)	B=Bulk T=Tape Reel (upwards of 500pcs)	A or C Blank =No available

*Please contact us for test level.

1 Specifications

Impedance:50mΩ

Frequency Range:DC to 12.4GHz/18GHz

VSWR@1GHz@25°C:1.30max

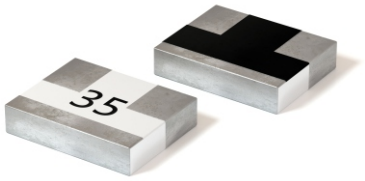
Power Rating:0.2W

Operating Temperature:-55°C to +150°C

Attenuation Tolerance:±0.5dB

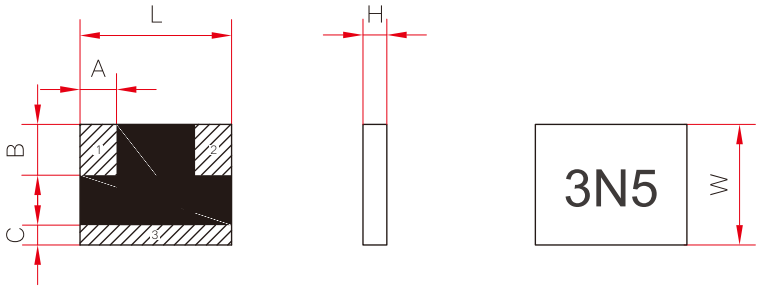
Temperature Coefficient of Attenuation(TCA):

From -0.009 to -0.003



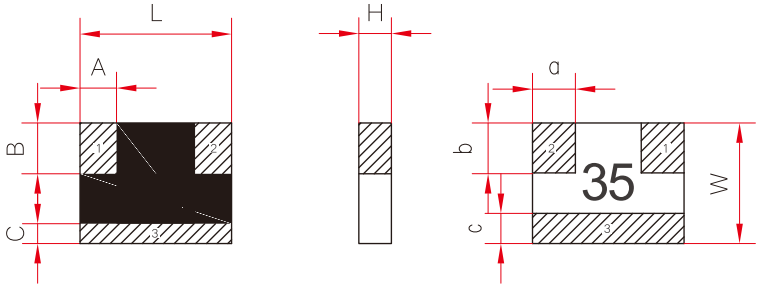
2 Mounting Style and Dimensions

Planar Style



Style code:G or W0

Triple Wrap Style

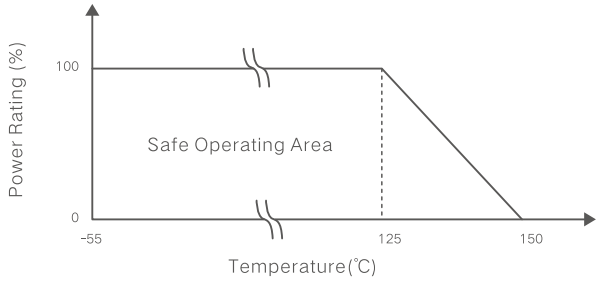


Style code:W3

Unit:mm

Style code	L	W	H	A	B	C	a	b	c
W3	1.96±0.12	1.54±0.12	0.41±0.12	0.48±0.12	0.63±0.12	0.26±0.12	0.54±0.12	0.63±0.12	0.38±0.12
W0	1.91±0.12	1.52±0.12	0.30±0.12	0.46±0.12	0.64±0.12	0.25±0.12	/	/	/
G	1.91±0.12	1.52±0.12	0.30±0.12	0.46±0.12	0.64±0.12	0.25±0.12	/	/	/

3 Power Rating and Derating



4 Available Attenuation and TCA Range

TCA (dB/dB/℃)	Attenuation at 25℃									
	1dB	2dB	3dB	4dB	5dB	6dB	7dB	8dB	9dB	10dB
-0.003	01N03*	02N03*	03N03*	04N03*	05N03*	06N03*	07N03*	08N03*	09N03*	10N03*
-0.004	01N04*	02N04*	03N04*	04N04*	05N04*	06N04*	07N04*	08N04*	09N04*	10N04*
-0.005	01N05*	02N05*	03N05*	04N05*	05N05*	06N05*	07N05*	08N05*	09N05*	10N05*
-0.006	01N06	02N06	03N06	04N06	05N06	06N06	07N06	08N06	09N06	10N06
-0.007	01N07	02N07	03N07	04N07	05N07	06N07	07N07	08N07	09N07	10N07
-0.008	/	02N08	03N08	04N08	05N08	06N08	07N08	08N08	09N08	10N08
-0.009	/	02N09	03N09	04N09	05N09	06N09	07N09	08N09	09N09	10N09

* Frequency range from DC to 18GHz with W0&G style.

5 Part Number

MTVA	03	N05	W3	L	B	A
Series	Attenuation	TCA Code	Mounting Style	Termination Finish	Packing	Test Level*
MTVA	01=1dB 02=2dB 03=3dB 04=4dB 05=5dB 06=6dB 07=7dB 08=8dB 09=9dB 10=10dB	N03=-0.003dB/dB/℃ N04=-0.004dB/dB/℃ N05=-0.005dB/dB/℃ N06=-0.006dB/dB/℃ N07=-0.007dB/dB/℃ N08=-0.008dB/dB/℃ N09=-0.009dB/dB/℃	W3=Triple Wrap W0= Planar G=Planar Gold	L=100% Tin F= Tin/Lead Alloy (No available on G style)	B=Bulk T=Tape Reel (upwards of 500pcs)	A or C Blank =No available

*Please contact us for test level.

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