



# HoGXT贴片陶瓷系列规格书

系列号	HoGXT
修订日期	2022-02-22
版本号	Ho-A0

## 规格书 Specification

制造商:深圳市毫欧电子有限公司

HoGXT

适用: 本规格书适用于深圳市毫欧电子有限公司HoGXT贴片陶瓷电阻系列产品选型。

包含: 0603、0805、1206、1210、2010、2512等封装。

### 产品特点 Features:

低阻值、高精度 (1%)

卓越的可靠性和合理的成本。

适用于无铅焊接。

符合RoHS标准, 无卤素。

### 产品名称 Product Name

贴片陶瓷电阻

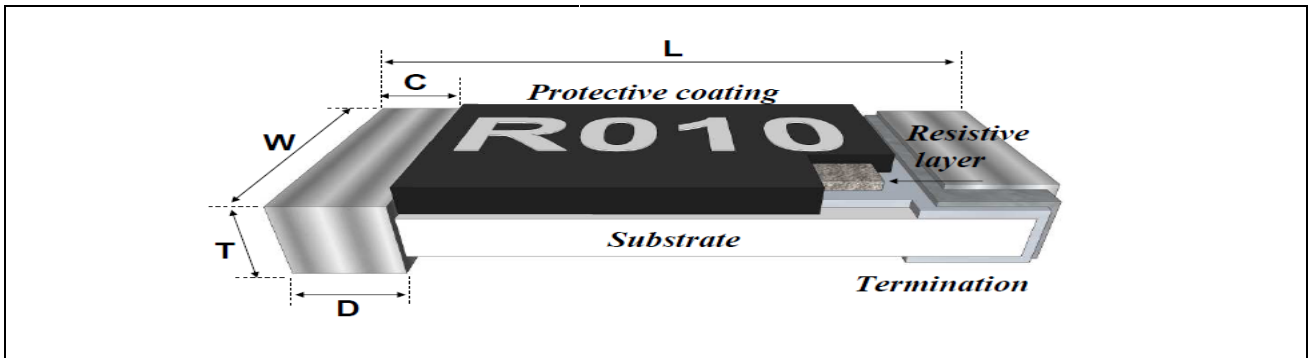
### 产品型号 Product number

Ho	GXT	0805	1/4W	100mR	5%	±50PPM
制造商	产品系列	封装	功率	阻值	精度	温度系数
Ho毫欧电子	GXT	0805 0603 1206 1210 2010 2512	1W 3/4W 2/3W 1/3W 1/4W 1/8W	R010:10mR R100:100mR	F=±1% G=±2% J=±5%	N: ±20 E: ±50 G: ±100



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■ 产品尺寸及结构 Dimension and Construction



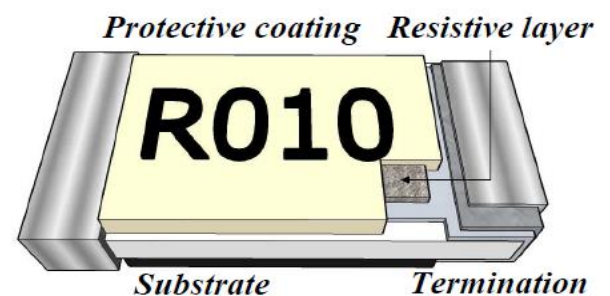
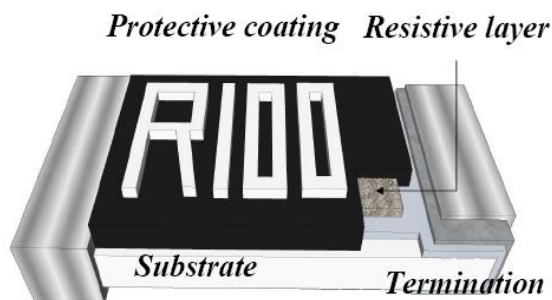
Unit : mm

Type 1.	L	W	C	D	T
GXT0603	1.60±0.10	0.80±0.10	0.30±0.20	0.30±0.20	0.45±0.10
GXT0805	2.00±0.10	1.25±0.10	0.40±0.20	0.40±0.20	0.50±0.10
GXT1206	3.10±0.10	1.60±0.10	0.50±0.25	0.50±0.25	0.55±0.10
GXT1210	3.10±0.10	2.60±0.10	0.50±0.25	0.50±0.25	0.55±0.10
GXT2010	5.00±0.20	2.50±0.20	0.60±0.25	0.60±0.25	0.60±0.10
GXT2512	6.30±0.20	3.10±0.20	0.60±0.25	0.90±0.25	0.60±0.15

Type 2.	L	W	C	D	T
GXT0603	1.60±0.10	0.80±0.10	0.30±0.20	0.50±0.20	0.50±0.10
GXT0805	2.00±0.10	1.25±0.10	0.40±0.20	0.65±0.20	0.60±0.10
GXT1206	3.10±0.10	1.60±0.10	0.50±0.25	0.90±0.25	0.65±0.10
GXT1210	3.10±0.10	2.60±0.10	0.50±0.25	0.90±0.25	0.65±0.10
GXT2010	5.00±0.20	2.50±0.20	0.60±0.25	1.25±0.25	0.65±0.10
GXT2512	6.30±0.20	3.10±0.20	0.60±0.25	1.90±0.25	0.65±0.15

Type 1. Resistance  $\geq 40\text{m}\Omega$

Type 2. Resistance  $\leq 39\text{m}\Omega$



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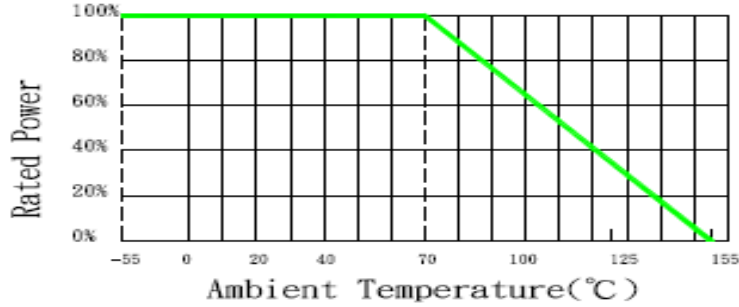


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## ■ 功率降额曲线 Power Derating Curve

工作温度范围：-55至+155摄氏度



## ■ 电气参数规格 Electrical parameter Specification

Normal Type		Power Rating at 70°C	Max. RCWV (mV)	Max. Overload Voltage (mV)	Resistance Tolerance (%)	Temperature Coefficient (TCR; ppm/°C)	Resistance Range (mΩ)		Standard Resistance Values
Type	Size						Min.	Max.	
GXT	0603	1/8W	337	754	±1、±2、±5	±100	40	91	E-24
						±20~±100	100	910	
GXT	0805	1/4W	477	1067	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	1206	1/3W	551	1232	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	1210	2/3W	779	1742	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	2010	3/4W	826	1847	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	2512	1W	954	2133	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	

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### ■ 电气参数规格 Electrical parameter Specification

Power Type		Power Rating at 70°C	Max. RCWV (mV)	Max. Overload Voltage (mV)	Resistance Tolerance (%)	Temperature Coefficient (TCR; ppm/°C)	Resistance Range (mΩ)		Standard Resistance Values
Type	Size						Min.	Max.	
GXT	0603	1/4W	477	1067	±1、±2、±5	±100	40	91	E-24
						±20~±100	100	910	
GXT	0805	1/2W	675	1508	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	1206	3/4W	826	1847	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	1210	3/4W	826	1847	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	2010	1W	954	2133	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	
GXT	2512	2W	1349	3017	±1、±2、±5	±100	10	46	E-24
						±20~±100	47	910	

Note :

1. RCWV =  $(P \times R)^{1/2}$  or Max. RCWV listed above, whichever is lower.

RCWV : Rated Continue Working Voltage(V) , P : Rated Power(W) , R : Resistance Value(Ω)

2. Special resistance value request please contact factory.

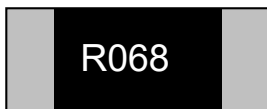
3. 10mΩ~18mΩ:TCR ±400ppm

### ■ 标记与焊接 Marking/Soldering

#### Resistance value identify :

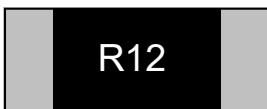
0805/1206/1210/2010/2512

Top Marking. ( 4 Digits marking to identify the resistance value. )



R068=68mΩ , R120=120mΩ 0603

Top Marking. ( 3 Digits marking to identify the resistance value. )

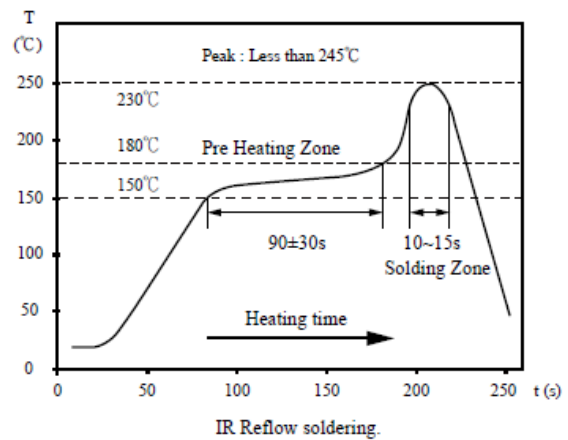
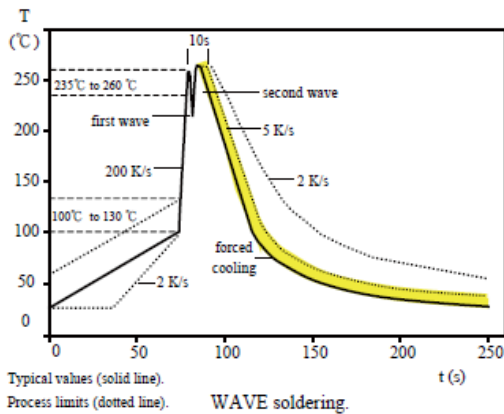


R12=120mΩ , 68M=68mΩ

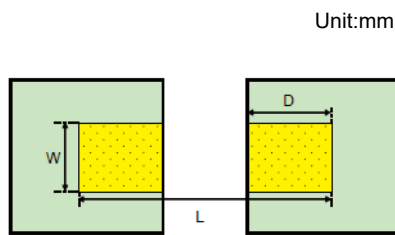
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■ 焊接参数



■ 建议焊盘尺寸 Recommended Solder Pad Dimension




Type	W	D	L
GXT0603	0.90	1.00	3.00
GXT0805	1.30	1.15	3.50
GXT1206	1.80	1.30	4.70
GXT1210	3.00	1.30	4.70
GXT2010	3.00	1.50	6.80
GXT2512	3.70	1.60	7.60

■ 可靠性能 Reliability Performance

Test Item	Specification	Test Method
<b>DC Resistance</b>	F : ±1% G : ±2% J : ±5%	IEC 60115-1 / JIS C 5201-1 , Clause 4.5 Measure the resistance Value.
<b>Resistance to Solder Heat</b>	$\Delta R \leq \pm(1\% + 0.5m\Omega)$ F : $\Delta R \leq \pm(0.5\% + 0.5m\Omega)$ No mechanical damage	IEC 60115-1, Clause 4.18 Solder dipping @ 260°C±5°C for 10sec.±1sec.
<b>Solder Ability</b>	Over 95% of termination must be covered with Solder.	IEC 60115-1, Clause 4.17 After immersing flux, dip in the 245±2°C molten solder bath for 3±0.5 sec.
<b>Short Time Overload</b>	$\Delta R \leq \pm(2\% + 0.5m\Omega)$ F : $\Delta R \leq \pm(1\% + 0.5m\Omega)$	IEC 60115-1, Clause 4.13 5 × Rated power for 5 seconds

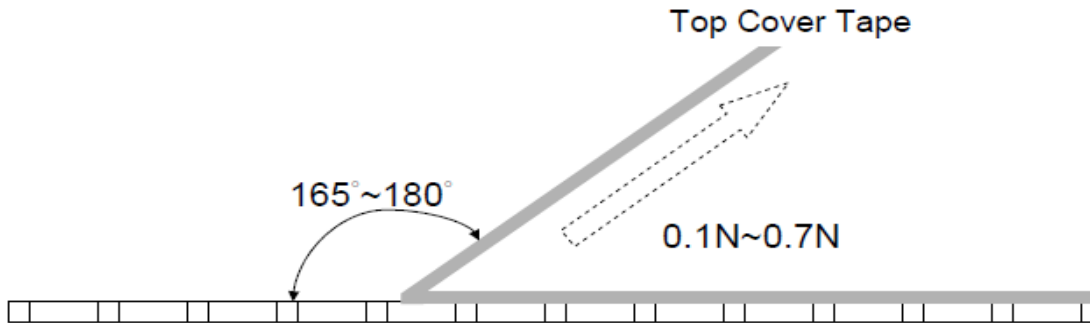
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<b>Temperature Coefficient of Resistance (TCR)</b>	Within the spec.	<b>IEC 60115-1, Clause 4.8</b> $T_1 \quad T_2$ Test temperature : 25°C~ 155°C $TCR(ppm/^{\circ}C) = (R_2-R_1)/R_1 \times 1 / (T_2-T_1) \times 10^6$
<b>Load Life</b>	$\Delta R \leq \pm(3\% + 0.5m\Omega)$	<b>IEC 60115-1, Clause 4.25</b> Rated voltage for 1.5 hours for followed by a pause 0.5 hour at 70±2°C. Cycle repeated 1000 hours.
<b>Bending strength</b>	$\Delta R \leq \pm(1\% + 0.5m\Omega)$ $F : \Delta R \leq \pm(0.5\% + 0.5m\Omega)$ No mechanical damage.	<b>IEC 60115-1 / JIS C 5201-1 , Clause 4.33</b> Resistance variance after bended on the 90mm PCB. Bending width : 3mm for 0603 0805 2mm for 1206 2010 2512
<b>Insulation Resistance</b>	Between termination and coating must over 1000MΩ	<b>IEC 60115-1, Clause 4.6</b> Test voltage : 100±15V

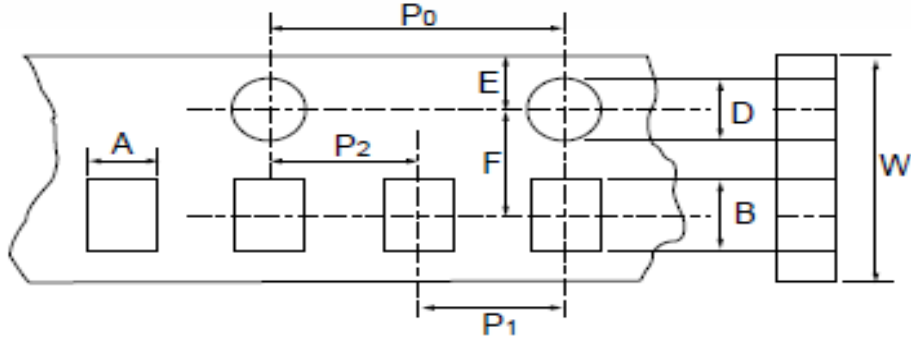
■ 顶盖胶带剥离强度 **Peel Strength of Top Cover Tape**

剥离速度约为300 mm/min  
 顶盖胶带的剥离力应在0.1~0.7N之间



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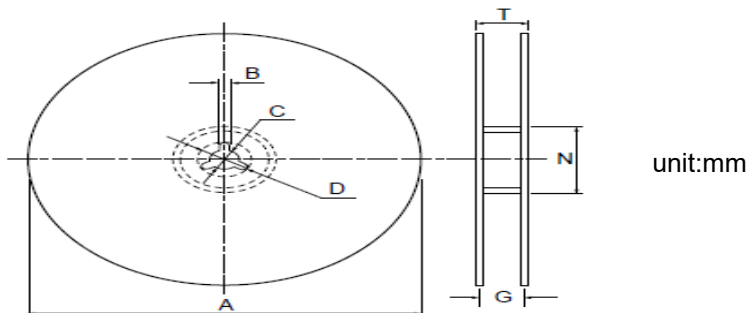
■ 彩带尺寸 Ribbon size(Unit:mm)



• Accumulated dimensional tolerance  $40\pm 0.2\text{mm}$


Size	A	B	W	F	E	P1	P2	P0	D
0603	$1.10\pm 0.20$	$1.90\pm 0.20$	$8.00\pm 0.30$	$3.50\pm 0.05$	$1.75\pm 0.10$	$4.00\pm 0.10$	$2.00\pm 0.05$	$4.00\pm 0.10$	$1.50+0.10/-0$
0805	$1.65\pm 0.20$	$2.40\pm 0.20$	$8.00\pm 0.30$	$3.50\pm 0.05$	$1.75\pm 0.10$	$4.00\pm 0.10$	$2.00\pm 0.05$	$4.00\pm 0.10$	$1.50+0.10/-0$
1206	$2.00\pm 0.20$	$3.60\pm 0.20$	$8.00\pm 0.30$	$3.50\pm 0.05$	$1.75\pm 0.10$	$4.00\pm 0.10$	$2.00\pm 0.05$	$4.00\pm 0.10$	$1.50+0.10/-0$
1210	$3.00\pm 0.20$	$3.60\pm 0.20$	$8.00\pm 0.30$	$3.50\pm 0.05$	$1.75\pm 0.10$	$4.00\pm 0.10$	$2.00\pm 0.05$	$4.00\pm 0.10$	$1.50+0.10/-0$
2010	$2.80\pm 0.20$	$5.50\pm 0.20$	$12.00\pm 0.30$	$5.50\pm 0.05$	$1.75\pm 0.10$	$4.00\pm 0.10$	$2.00\pm 0.05$	$4.00\pm 0.10$	$1.50+0.10/-0$
2512	$3.50\pm 0.20$	$6.70\pm 0.20$	$12.00\pm 0.30$	$5.50\pm 0.05$	$1.75\pm 0.10$	$4.00\pm 0.10$	$2.00\pm 0.05$	$4.00\pm 0.10$	$1.50+0.10/-0$

■ 卷轴规格 Reel Specification



Size	Packaging Qty	A	N	C	D	B	G	T
0603	5kpcs/Reel	$178.0\pm 2.0$	$60.0\pm 0.5$	$13.0\pm 0.5$	20(Min.)	$2.0\pm 0.5$	$10.0\pm 1.5$	14.9max.
0805	10kpcs/Reel	$254.0\pm 2.0$	$100.0\pm 1.0$	$13.5\pm 0.5$	20(Min.)	$2.0\pm 0.5$	$10.0\pm 1.5$	14.9max.
1206	20kpcs/Reel	$330.0\pm 2.0$	$100.0\pm 1.0$	$13.5\pm 0.5$	20(Min.)	$2.0\pm 0.5$	$10.0\pm 1.5$	14.9max.
1210	20kpcs/Reel	$330.0\pm 2.0$	$100.0\pm 1.0$	$13.5\pm 0.5$	20(Min.)	$2.0\pm 0.5$	$10.0\pm 1.5$	14.9max.
2010	4kpcs/Reel	$178.0\pm 2.0$	$60.0\pm 0.5$	$13.0\pm 0.5$	20(Min.)	$2.0\pm 0.5$	$13.8\pm 1.5$	16.7max.
2512	8kpcs/Reel	$254.0\pm 2.0$	$100.0\pm 0.5$	$13.5\pm 0.5$	20(Min.)	$2.0\pm 0.5$	$13.8\pm 1.5$	20.0max.
2512	16kpcs/Reel	$330.0\pm 2.0$	$100.0\pm 1.0$	$13.5\pm 0.5$	20(Min.)	$2.0\pm 0.5$	$13.8\pm 1.5$	20.0max.

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■ **储存环境Storage Environment**

建议在一年内用完，以保证保质期。

如果需要延长保质期，检查焊接能力

温度：5-40℃；湿度：20-70%相对湿度

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