# Thick film chip resistors

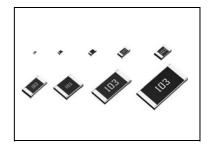
**MCR** series

## Features

ROHM

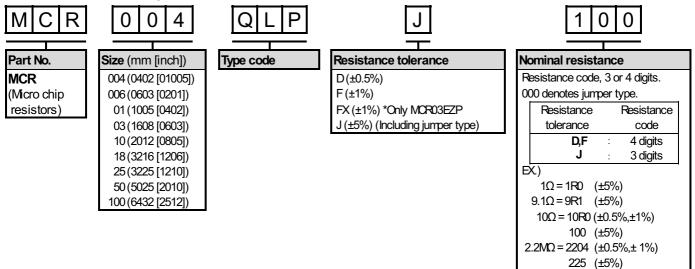
1) Full line up from ultra small size (01005) to 2512 with jumper type.

- 2) High reliability metal glazed thick film.
- 3) ROHM resistors have obtained ISO9001/ISO/TS16949 certification.



Darthla	Si	ze	Tine code	Packaging	Quertitu / De el	Automotive
Part No.	(mm)	(inch)	Type code	specifications	Quantity / Reel	Grade Available
MCR004	0402	01005	QLP	Paper tape(2mmPtch)	20,000	_
MCR006	0603	0201	YLP	Paper tape(2mmPitch)	15,000	Yes
MCR01	1005	0402	MZP	Paper tape(2mmPtch)	10,000	Yes
MCR03	1608	0603	EZP	Paper tape(4mmPtch)	5,000	Yes
MCR10	2012	0805	EZP	Paper tape(4mmPtch)	5,000	Yes
MCR18	3216	1206	EZP	Paper tape(4mmPitch)	5,000	Yes
MCR25	3225	1210	JZH	Embossed tape(4mm Ptch)	4,000	Yes
MCR50	5025	2010	JZH	Embossed tape(4mm Ptch)	4,000	Yes
MCR100	6432	2512	JZH	Embossed tape(4mm Ptch)	4,000	Yes

## Part number description



### Datasheet

## **MCR** series

Part No.	Type code	Rated power (70°C)	Limiting element voltage	Temperature coefficient	Resistance tolerance	Resistar	nce range	Operating temperature range		
		(W)	(V)	(ppm/°C)	(%)	(	Ω)	(°C)		
			<u> </u>	±300	F(±1%)	10≦R<100	(E24/96 series)			
				±250	F(±1%)	100≦R≦3M	(E24/96 series)			
1405004		0.031	15	+600/-100	J(±5%)	1.0≦R<10	(E24 series)	55 . 405		
MCR004	QLP			±300	J(±5%)	10≦R<100	(E24 series)	-55 ~ +125		
				±250	J(±5%)	100≦R≦3M	(E24 series)			
		I	Jumper	type)Rmax : 50	mΩMax., Imax	0.5A	. ,			
				±200	D(±0.5%)	10≦R<1k	(E24/96 series)			
	\// D	0.05	25	±100	D(±0.5%)	1k≦r≦1M	(E24/96 series)	55 . 405		
MCR006	YLP			±250	F(±1%)	10≦R≦10M	(E24/96 series)	-55 ~ +125		
			Jumpe	rtype)Rmax:50	DmΩMax., Imax	: 2A				
				±100	D(±0.5%)	10≦R<100	(E24 series)			
				±50	D(±0.5%)	100≦R≦1M	(E24 series)			
		0.063	50	±100	F(±1%)	10≦R≦2.2M	(E24/96 series)	1 /		
MCR01	MZP			+500/-250	J(±5%)	1.0≦R<10	(E24 series)	-55 ~ +155		
				<u>+200</u>	J(±5%)	10≦R≦10M	(E24 series)			
		I	Jumpe	rtype)Rmax:50	) mΩMax., Imax	: 1A	, ,			
			· ·	±100	D(±0.5%)	10≦R<100	(E24/96 series)			
	ICR03 EZP			±50	D(±0.5%)	100≦R≦1M	(E24/96 series)			
		0.10	50	±100	FX(±1%)	10≦R≦10M	(E24/96 series)	-55 ~ +155		
MCR03		EZP		±400	J(±5%)	1≦R<10	(E24 series)			
				±200	J(±5%)	10≦R≦10M	(E24 series)			
		I	Jumpe	r type) Rmax : 50			(,			
			•	±100	D(±0.5%)	10≦R<100	(E24/96 series)			
		0.100	150	±50	D(±0.5%)	100≦R≦1M	(E24/96 series)	-55 ~ +155		
	EZP			±100	F(±1%)	10≦R≦2.2M	(E24/96 series)			
MCR10		0.125	150	±400	J(±5%)	1.0≦R<10	(E24 series)			
		0.125	100	±200	J(±5%)	10≦R≦10M	(E24 series)	-55 ~ +155		
			Jumpe	r type) Rmax : 50				_		
			oumpo	±100	D ( ±0.5% )	10≦R<100	(E24/96 series)			
		0.125	200	±50	D(±0.5%)	100≦R≦1M	(E24/96 series)	-55 ~ +155		
				±100	F(±1%)	10≦R≦2.2M	(E24/96 series)			
MCR18	EZP	0.25	200	±400	J(±5%)	1.0≦R<10	(E24 series)	-		
		0.25	200	±400	J(±5%)	10≦R≦10M	(E24 series)	-55 ~ +155		
			lumpe	r type) Rmax : 50	. ,					
			Jumpe		F(±1%)	. 25 10≦R≦1M	(E24/96 series)			
				500±350	J(±5%)	1.0≦R<2.2	(E24 series)	-		
MCR25	JZH	0.5 to 0.5 <sup>*1</sup>	200	±500	J(±5%)	1.0⊒R<2.2 2.2≦R<5.6	(E24 series)	-55 ~ +155		
WONED	5211			±200	J(±5%)	5.6≦R≦3.3M	(E24 series)	-55 ** 1155		
			lumpe	r type) Rmax : 50	· · ·					
			oumpe	±100	F (±1%)	. ∠n 10 ≦ R ≦ 180k	(F24/96 series)			
				500±350	J(±5%)	1.0 ≦ R < 2.2	,	1		
		0.5	200	±500	J(±5%)	1.0 ≦ R < 2.2 2.2 ≦ R < 10	, ,	1		
MCR50 JZH	JZH	0.5	200	±300 ±200	J(±5%)	$10 \le R \le 330k$	( )	-55 ~ +155		
				±350	J(±5%)	$330k < R \le 560k$		4		
		}I	lumoo	rtype)Rmax:50	, ,			4		
		ł – – – – – – – – – – – – – – – – – – –	Juinpe	±100	F(±1%)	: 3A 10≦R≦82k	(E24/96 series)			
				±100 500±350	$F(\pm 1\%)$ J(±5%)	10≦R≦62k 1.0≦R<2.2	,	-		
		1	200		. ,		(E24 series)	4		
MCR100	JZH	1	200	±500	J(±5%)	2.2≦R<10 10≦R<24	(E24 series)	-55 ~ +125		
				±350	J(±5%)		(E24 series)	4		
			±200	J(±5%)	24≦R≦100k	(E24 series)	1			

\* Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it.

\* Rated voltage is determained from the following.

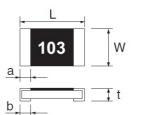
When rated voltage exceeds the limiting element voltage, the limiting element voltage shall be the rated voltage.

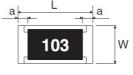
\* Rated voltage = Rated power × Rasistance

\* E24 : Standard products, E96 : Custom products

\*1. Rated power  $1\Omega \sim 9.76\Omega$  : 0.25W,  $10\Omega \sim 9.76k\Omega$  : 0.5W,  $10k\Omega \sim 3.3M\Omega$  : 0.33W

### ●Chip resistor dimensions and markings ■MCR 004 / 006 / 01 / 03 ■MCR 10 / 18 / 25 / 50 / 100





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### <Marking method>

There are three or four digits used for the calculation number according to IEC code and Ris used for the decimal point.

u -	-		b	← → b		(Unit:mm)			
Part No.	Type code	(mm)	(inch)	L	W	t	а	b	Marking existence
MCR004	QLP	0402	01005	0.40 ±0.02	0.20 ±0.02	0.13±0.02	0.10±0.03	0.10±0.03	No
MCR006	YLP	0603	0201	0.60 ±0.03	0.30 ±0.03	0.23±0.03	0.10±0.05	0.15±0.05	No
MCR01	MZP	1005	0402	1.00 ±0.05	0.50 ±0.05	0.35±0.05	0.20±0.10	0.25 <sup>+0.05</sup> -0.10	No
MCR03	EZP	1608	0603	1.60 ±0.10	0.80 ±0.10	0.45±0.10	0.30±0.20	0.30±0.20	Yes*
MCR10	EZP	2012	0805	2.00 ±0.10	1.25±0.10	0.55±0.10	0.40 ±0.20	0.40±0.20	Yes
MCR18	EZP	3216	1206	3.20 ±0.15	1.60 ±0.15	0.55±0.10	0.50 ±0.25	0.50±0.25	Yes
MCR25	JZH	3225	1210	3.20 ±0.15	2.50 ±0.15	0.55±0.10	0.50 ±0.25	0.50±0.25	Yes
MCR50	JZH	5025	2010	5.00 ±0.15	2.50 ±0.15	0.55±0.15	0.60 ±0.25	0.60±0.25	Yes
MCR100	JZH	6432	2512	6.30 ±0.15	3.20 ±0.15	0.55±0.15	0.60 ±0.25	0.60±0.25	Yes

### Marking method of jumper type

Jumper type	Marking existence
MCR 004 / 006 / 01 / 25 / 50 / 100	No
MCR 03 / 10 / 18	Yes

\*Marking method of MCR25/50/100

Blueglass over coat is used for the jumper type.

There is no marking on the jumper type.

\*Marking method of MCR03

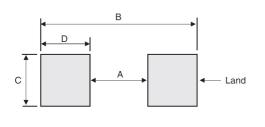
For MCR03 series resistors, the printing process restricts the marking to three digits/characters.

Consequently, 1% tolerance resistors with values from the E24 series will be marked the same as 5% resistors with the same value, but 1% tolerance resistors with values from the E96 series will not be marked.

### Examples:

MCR03EZPJ243 MCR03EZPFX2402 MCR03EZPFX2432	$\begin{array}{l} (5\% \text{ tolerance, E24 / 24 k}\Omega ) \\ (1\% \text{ tolerance, E24 / 24 k}\Omega ) \\ (1\% \text{ tolerance, E96 / 24.3 k}\Omega ) \end{array}$	Marking = 243 Marking = 243 No Marking
MCR18EZPJ243 MCR18EZFF2402 MCR18EZFF2432	$\begin{array}{l} (5\% \mbox{ tolerance, E24 / 24 k} \Omega \ ) \\ (1\% \mbox{ tolerance, E24 / 24 k} \Omega \ ) \\ (1\% \mbox{ tolerance, E96 / 24.3 k} \Omega \ ) \end{array}$	Marking = 243 Marking = 2402 Marking = 2432

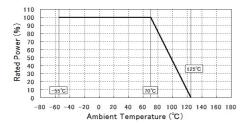
## •Land pattern example

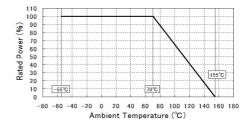


				(Unit:mm)
Dimensions Part No.	А	В	С	D
MCR004	0.12	0.48	0.22	0.18
MCR006	0.3	0.84	0.3	0.27
MCR01	0.5	1.3	0.5	0.4
MCR03	1.0	2.0	0.8	0.5
MCR10	1.2	2.6	1.15	0.7
MCR18	2.2	4.0	1.5	0.9
MCR25	2.2	4.0	2.3	0.9
MCR50	3.8	6.0	2.3	1.1
MCR100	5.1	8.1	3.0	1.5

## •Derating curve

When the ambient temperature exceeds 70°C, power dissipation must be adjusted according to the derating curves below. **MCR 004 / 100 MCR 006 / 01 / 03 / 10 / 18 / 25 / 50** 



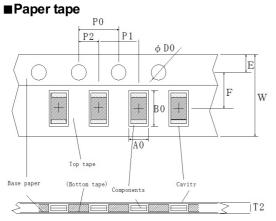


## Characteristics

	Test items			Gu	aranteed	eed value			Test conditions
	lest tierns		Res	istor type		Jumpe	r type		IEST CONCINONS
Resistance	)			Se	e "Produc	ts list"		20°C	
Variation of with tempe	f resistance rature			Se	e "Produc	ts list"		Measure	ement: +25/-55, +25/+125°C
Overload			±(2.0%+0.1Ω)			MAX. 5	ömΩ	1 Rated	age is the smaller one of ① or ② I voltage(current)×2.5, 2s num overload voltage ※
Solderabilit	у		A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.				Rosin-ethanol solution(25% w eight) Soldering condition: 245±5°C Duration of immersion: 2.0±0.5s		
Resistance soldering h			```	%+0.05Ω) markable at		MAX. 5 on the appe	•••••		g condition: 260±5°C n of immersion: 10±1s
Rapid char temperatur			±(1.0%+0.05Ω)			MAX. 5	ÖmΩ	-55°C∼	p. +125°C 1000cycle(MCR01) +125°C 100cycle(MCR004/006) +125°C 5cycle(MCR03/10/18/25/50/100)
Damp heat,	, steady state	e	±(3.0	%+0.1Ω)		MAX. 10	0mΩ		3%(Relative humidity) e: 1,000h
Endurance	at 70°C		±(3.0	%+0.1Ω)		MAX. 10	00mΩ	1.5h:ON	oltage(current),70°C±3°C I–0.5h:OFF ə: 1,000h
Endurance	1		±(3.0%+0.1Ω)			MAX. 100mΩ		155°C(N	/CR004/100) /CR006/01/03/10/18/25/50) e: 1,000h
Resistance	e to solvent		±(1.0%+0.05Ω)		MAX. 50mΩ			Immersion cleaning, 5±0.5min 2-propanol	
Bend stren	Bend strength of		±(1.09	%+0.05Ω)	İ	MAX. 5	i0mΩ		
the end face plating		Witho	out mechan	ical dama	ge such as	breaks.		-	
≫Maximu	m overload	l voltage (	Test voltage	e)				1	Compliance Standard(s): IEC60115-8
	MCR006	MCR01	MCR03	MCR10	MCR18	MCR25	MCR50	MCR100	JISC 5201-8
30V	50V	100V	100V	200V	400V	400V	400V	400V	

## Datasheet

## **MCR** series



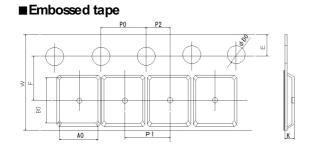
					(U	Init : mm)
Part No.	Type code	W	F	E	AO	BO
MCR004	QLP	8.0±0.20	3.5±0.05	1.75±0.10	0.24 ±0.03	0.45±0.03
MCR006	YLP	8.0±0.20	3.5±0.05	1.75±0.10	0.38±0.03	0.68±0.03
MCR01	MZP	8.0±0.3	3.5±0.05	1.75±0.1	0.7±0.1	1.2±0.1
MCR03	EZP	8.0±0.3	3.5±0.05	1.75±0.1	1.1 ±0.1	1.9±0.1
MCR10	EZP	8.0±0.3	3.5±0.05	1.75±0.1	1.65 <sup>+0.2</sup> -0.1	2.4 <sup>+0.2</sup> -0.1
MCR18	EZP	8.0±0.3	3.5±0.05	1.75±0.1	1.95 <sup>+0.1</sup> -0.05	3.5 <sup>+0.15</sup> -0.05

Part No.	Type code	D0	P0	P1	P2	T2
MCR004	QLP	Ф1.5 <sup>+0.10</sup> 0	4.0 ±0. 10	2.0±0.05	2.0±0.05	MAX0.50
MCR006	ΥLΡ	Ф1.5 <sup>+0.10</sup> 0	4.0 ±0. 10	2.0±0.05	2.0±0.05	MAX0.50
MCR01	MZP	Ф1.5 <sup>+0.1</sup>	4.0 ±0.1	2.0±0.05	2.0±0.05	MAX1.1
MCR03	EZP	Ф1.5 <sup>+0.1</sup>	4.0 ±0.1	4.0±0.1	2.0±0.05	MAX1.1
MCR10	EZP	Ф1.5 <sup>+0.1</sup>	4.00.1	4.0±0.1	2.0±0.05	MAX1.1
MCR18	EZP	Ф1.5 <sup>+0.1</sup>	4.0 ±0.1	4.0±0.1	2.0±0.05	MAX1.1

(Unit:mm)

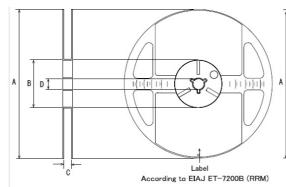
Part No.	Type code	W	F	E	AO	BO
MCR25	JZH	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
MCR50	JZH	12.0±0.3	5.5±0.05	1.75±0.1	3.4±0.2	5.6±0.2
MCR100	JZH	12.0±0.3	5.5±0.05	1.75±0.1	3.5±0.2	6.7±0.2

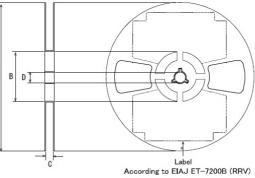
Part No.	Type code	W	F	E	AO	BO
MCR25	JZH	Ф1.5 <sup>+0.1</sup>	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
MCR50	JZH	Ф1.5 <sup>+0.1</sup>	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
MCR100	JZH	Ф1.5 <sup>+0.1</sup>	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1



## Reel dimensions

## ①MCR 004/006/01/03/10/18/25/50/100





②MCR 004/006/01/03/10/18/25

(Unit:mm)

Part No.	Type code	A	В	С	D
MCR004	QLP				
MCR006	YLP				
MCR01	MZP	0	110	110	
MCR03	EZP	Ф180 <sup>0</sup> -1.5	Ф60 <sup>+1.0</sup>	9 <sup>+1.0</sup> 0	Ф13±0.2
MCR10	EZP	-1.5	U	0	
MCR18	EZP				
MCR25	JZH				
MCR50	JZH			13 <sup>+1.0</sup>	
MCR100	JZH			50	

## Notice

### **Precaution on using ROHM Products**

1. If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment <sup>(Note 1)</sup>, aircraft/spacecraft, nuclear power controllers, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

(Note1) Medical Equipment Classification of the Specific Ap	pplications
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JAPAN	USA	EU	CHINA	
		CLASS II b	CLASSII	
CLASSⅣ	CLASS III	CLASSⅢ	CLASSII	

2. ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:

[a] Installation of protection circuits or other protective devices to improve system safety

[b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure

- 3. Our Products are not designed under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc, prior to use, must be necessary:
  - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
  - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
  - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
  - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
  - [f] Sealing or coating our Products with resin or other coating materials
  - [g] Use of our Products without cleaning residue of flux (even if you use no-clean type fluxes, cleaning residue of flux is recommended); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
  - [h] Use of the Products in places subject to dew condensation
- 4. The Products are not subject to radiation-proof design.
- 5. Please verify and confirm characteristics of the final or mounted products in using the Products.
- 6. In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse. is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
- 7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
- 8. Confirm that operation temperature is within the specified range described in the product specification.
- 9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

### Precaution for Mounting / Circuit board design

- 1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
- 2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

### **Precautions Regarding Application Examples and External Circuits**

- 1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
- 2. You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of such information.

### **Precaution for Electrostatic**

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of lonizer, friction prevention and temperature / humidity control).

### Precaution for Storage / Transportation

- 1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
  - [a] the Products are exposed to sea winds or corrosive gases, including Cl2, H2S, NH3, SO2, and NO2
  - [b] the temperature or humidity exceeds those recommended by ROHM
  - [c] the Products are exposed to direct sunshine or condensation
  - [d] the Products are exposed to high Electrostatic
- 2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
- 3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
- 4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

#### **Precaution for Product Label**

A two-dimensional barcode printed on ROHM Products label is for ROHM's internal use only.

### **Precaution for Disposition**

When disposing Products please dispose them properly using an authorized industry waste company.

### Precaution for Foreign Exchange and Foreign Trade act

Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

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## MCR004QLPF - Web Page

Part Number	MCR004QLPF	
Package		
Unit Quantity	20000	
Minimum Package Quantity	20000	
Packing Type	Taping	
Constitution Materials List	inquiry	
RoHS	Yes	

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