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SPECIFICATION FOR APPROVAL

CUSTOMER	CUSTOMER P/N	REV. —	SPL. LOT NO.	
PART NAME HIGH CURRENT POWER CHOKE (ROHS)	PART NO. MCS0630-XXXXNX	REV. ORIG	DATE OF ISSUE 9/7/'12	Q'TY PC

1. FEATURES

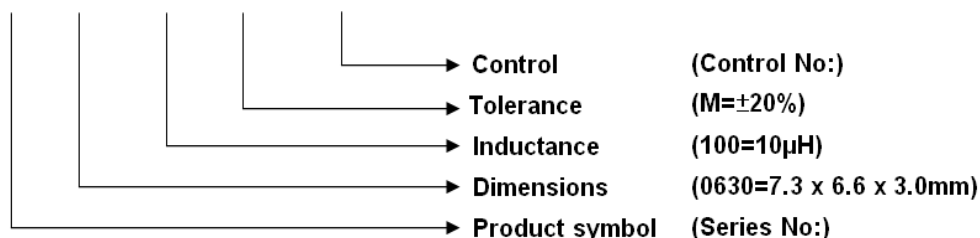
- Shielded construction.
- Frequency Range: up to 1 MHz.
- Handles high transient current spikes without saturation.
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard

2. APPLICATION

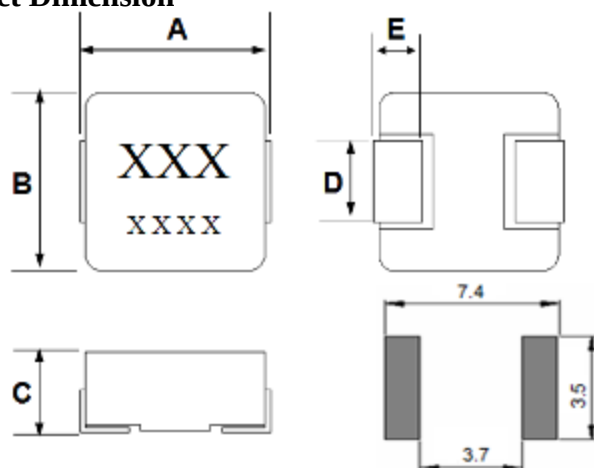
- Notebook, PDA, desktop, and server applications.
- High current POL converters
- Low profile, high current power supplies.
- Battery powered devices
- DC/DC converters in distributed power systems.

3. Product Identification

MCS 0630- □□□ □ □□



4. Product Dimension



UNIT: mm

	DIM.	TOL.
A	7.3	max
B	6.6	± 0.2
C	3.0	max
D	3.0	± 0.3
E	1.6	± 0.3

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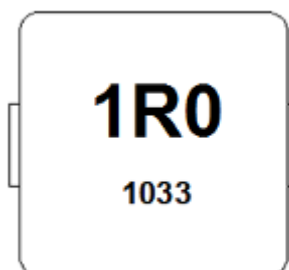
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5. Marking and Date code:

Marking ex:1.0uH → 1R0

Date code

XX XX → year and weekly ex:1033



6. Electrical Spec.:

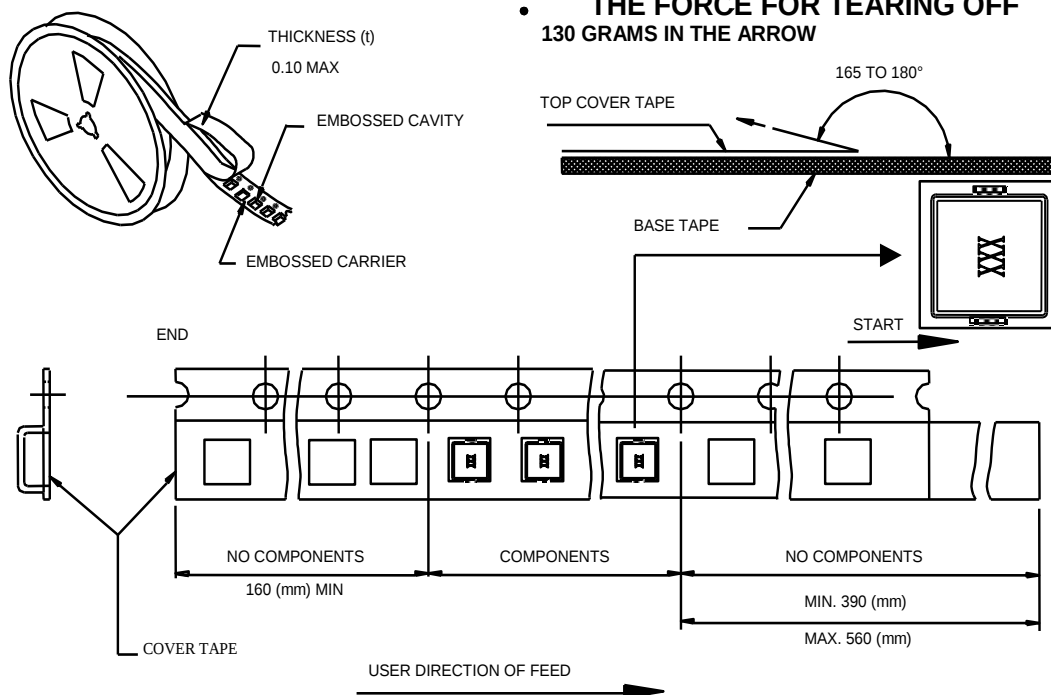
PART NO.	Inductance (uH)±20%	DCR mΩ Typical 25℃	DCR mΩ MAX.25℃	Rated Current Typical (A)	I sat Typical (A)
MCS0630-R22MN2	0.22	2.5	2.8	23.0	40.0
MCS0630-R33MN2	0.33	3.5	3.9	20.0	30.0
MCS0630-R47MN2	0.47	4.0	4.2	17.5	26.0
MCS0630-R56MN2	0.56	4.7	5.0	16.5	25.5
MCS0630-R68MN2	0.68	5.0	5.5	15.5	25.0
MCS0630-R82MN2	0.82	6.7	8.0	13.0	20.0
MCS0630-1R0MN2	1.0	9.0	10.0	11.0	20.0
MCS0630-1R5MN2	1.5	14.0	15.0	9.0	16.0
MCS0630-2R2MN2	2.2	17.0	20.0	8.0	12.0
MCS0630-3R3MN2	3.3	28.0	30.0	6.0	10.0
MCS0630-4R7MN2	4.7	37.0	40.0	5.5	7.0
MCS0630-6R8MN2	6.8	54.0	60.0	4.5	6.5
MCS0630-8R2MN1	8.2	54.0	60.0	4.5	6.0
MCS0630-100MN1	10.0	62.0	68.0	4.0	5.5
MCS0630-150MN1	15.0	120.0	160.0	2.0	4.0
MCS0630-220MN1	22.0	165.0	190.0	2.0	3.5
MCS0630-330MN1	33.0	226.0	271.0	2.0	2.2

TEST INSTRUMENT: Zentech502BC 、Zentech1320+Zentech3305

- (1). Test Freq : 100KHz , 0.5V
- (2). All test data is referenced to 25℃ ambient.
- (3). Operating Temperature Range -55℃ to +125℃.
- (4). Rated Current: DC current(A)that will cause an approximate ΔT of 40℃.
- (5). I sat: DC current(A)that will cause Lo to drop approximately 30%.
- (6). The part temperature(ambient +temp rise)should not exceed 125℃ under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified

SPECIFICATION FOR APPROVAL

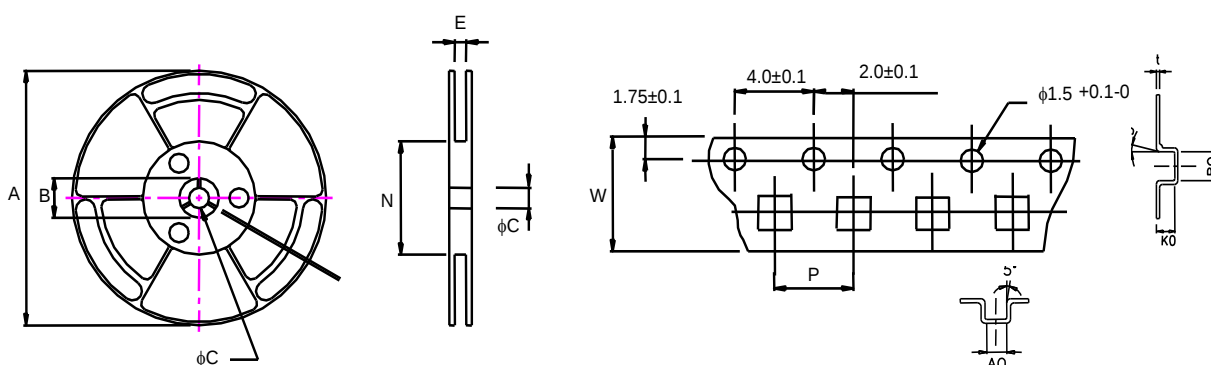
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CARRIER TAPE REELS (mm)

MATERIAL: PLASTIC

DIMENSIONS OF CARRIER TAPE (mm)



1000 Parts per Reel

※ 10 sprocket hole pitch cumulative tolerance ±0.20

UNIT : mm

	A	B	C	E	N	P	W	t	AO	B0	K0
DIM.	330	25.0	13.0	16.6	100	12.0	16.0	0.4	6.9	7.6	3.4
TOL.	±0.2	±0.5	±0.5	±0.5	MIN	±0.1	±0.3	±0.05	±0.1	±0.1	±0.1

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TYPICAL RoHS REFLOW PROFILE :

Typical RoHS Reflow Profile

