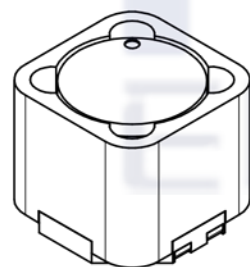
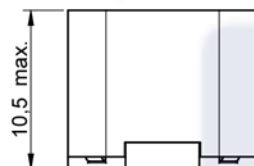
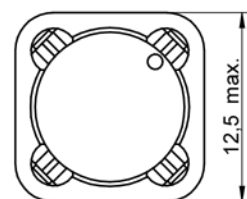
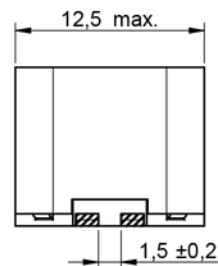
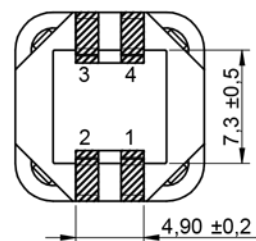


Dimensions: [mm]

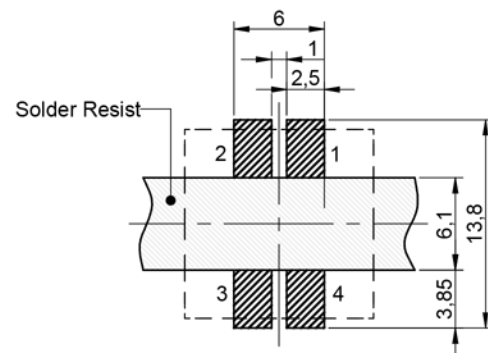


Scale - 2:1

Product Marking:

Start of Winding	• - Indicates top left corner
Marking	C for "Common Mode Choke"
Marking	C102 (Inductance Code)

Recommended Land Pattern: [mm]



Scale - 2:1

Schematic:



Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	2x1000	μH	±20%
Maximum Impedance			160000	Ω	max.
Rated Current	ΔT = 40 K	I _R	300	mA	max.
DC Resistance		R _{DC}	2x2.5	Ω	max.
Insulation Test Voltage		U _T	250	V (AC)	
Rated Voltage		U _R	80	V	max.

General Properties:

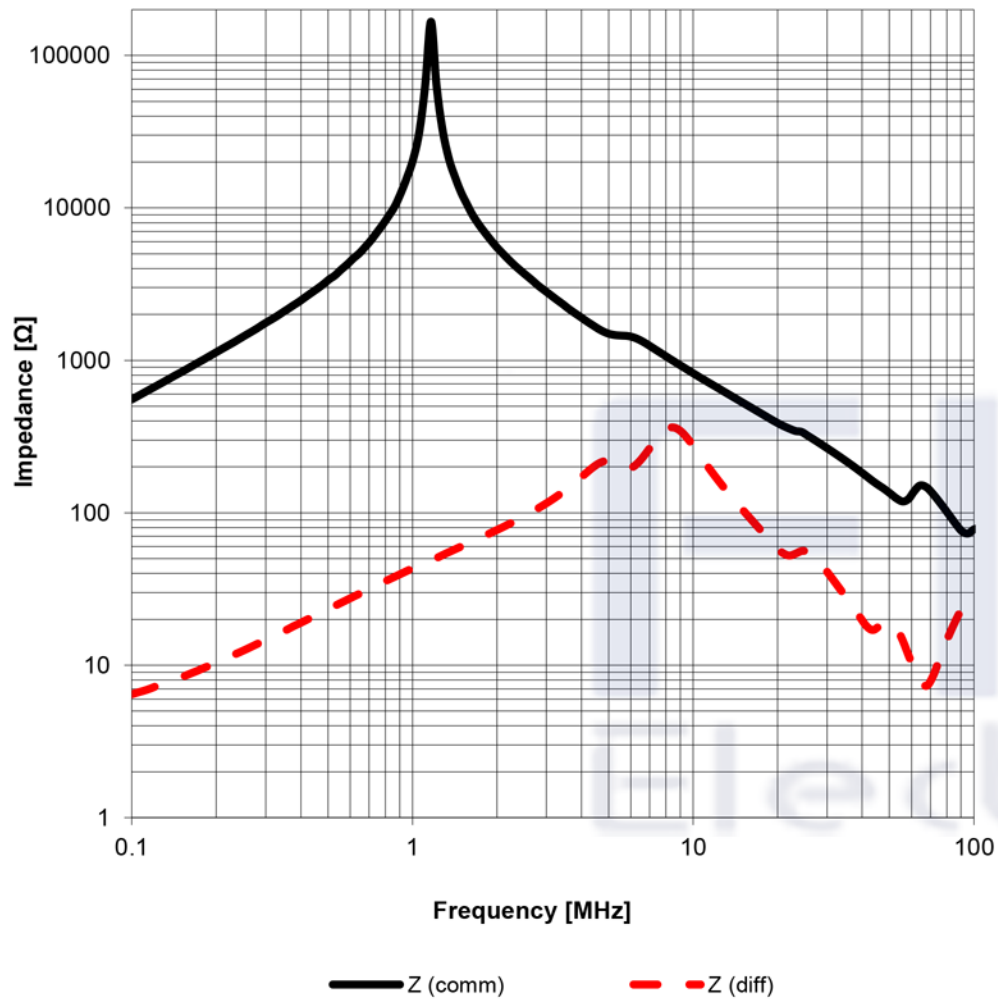
It is recommended that the temperature of the component does not exceed +125°C under worst case conditions	
Ambient Temperature (referring to I _R)	-40 °C up to +85 °C
Operating Temperature	-40 °C up to +125 °C
Test conditions of Electrical Properties: +20°C, 33% RH if not specified differently	

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Tel: +86-29-8868 5333
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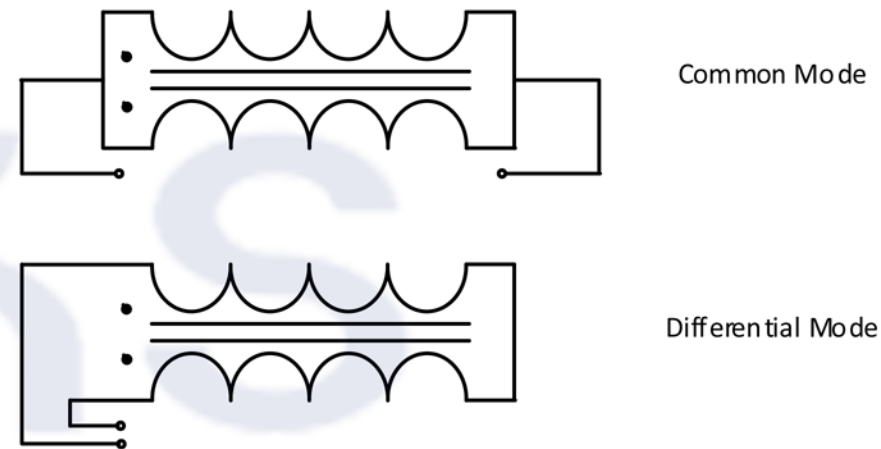


		GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 	
DESCRIPTION SMD Common Mode Line Filter		ORDER CODE FKS744284102		
SIZE 1210	REVISION 003.010	STATUS Valid		

Typical Impedance Characteristics:

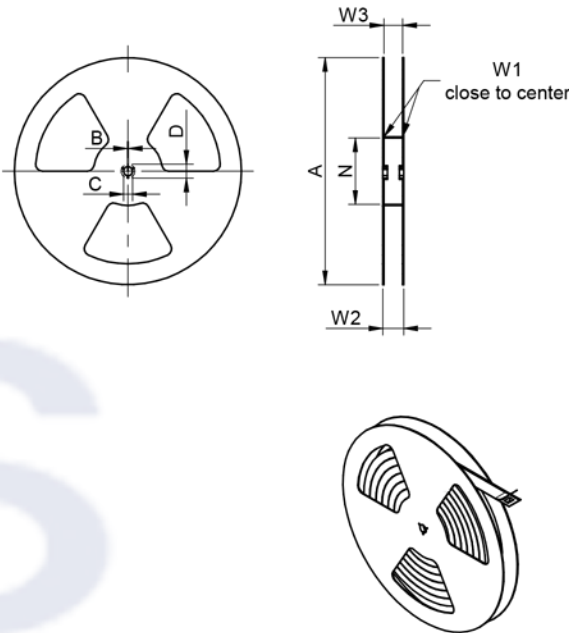
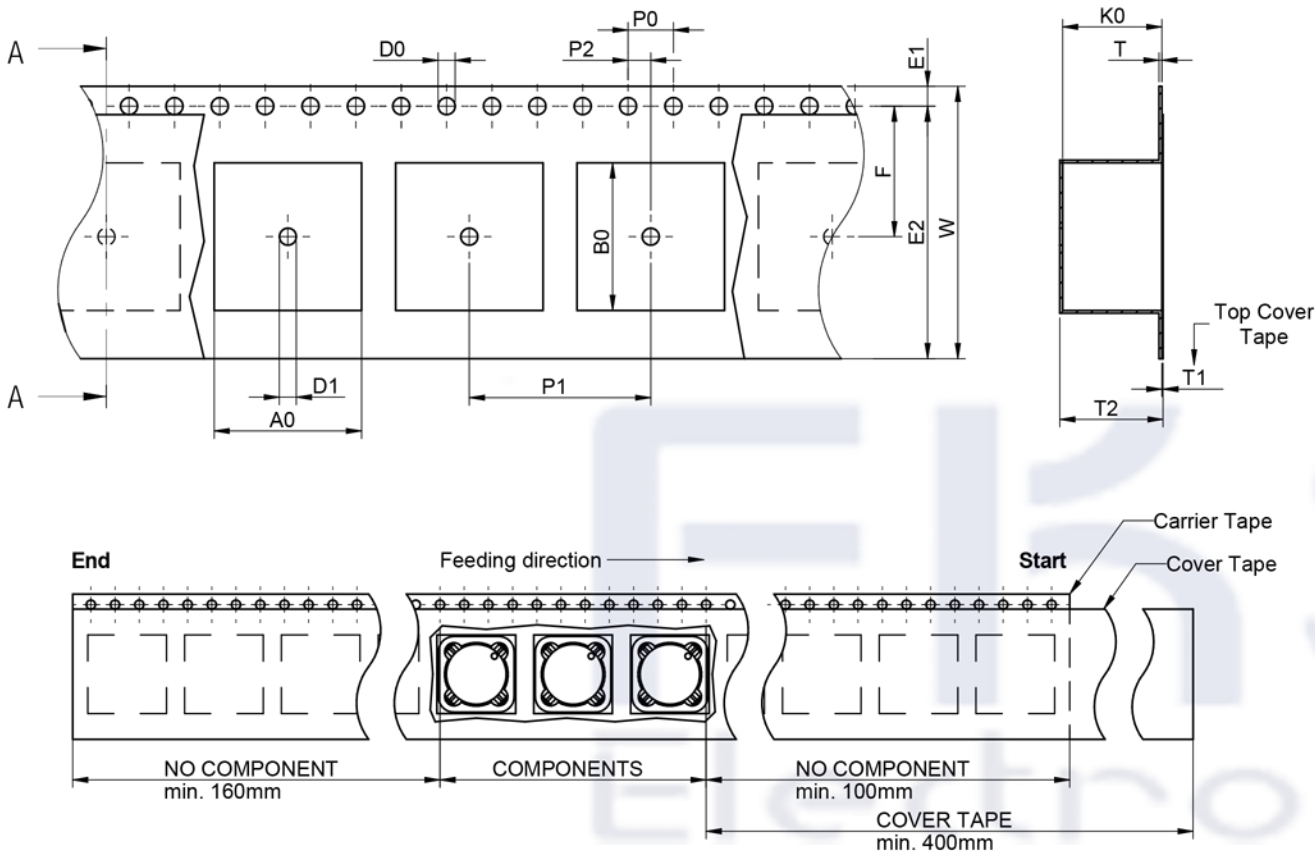


Test Setup:



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DESCRIPTION SMD Common Mode Line Filter			ORDER CODE FKS744284102			
			SIZE 1210	REVISION 003.010	STATUS Valid	

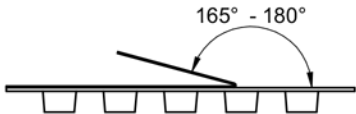
Packaging Specification - Tape and Reel: [mm]



packaging is referred to the international standard IEC 60286-3:2013

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit
tolerance	typ.	typ.	+0,3/-0,1	ref.	max.	typ.	typ.	±0,1	±0,1	±0,1	+0,1/-0,0	min.	±0,1	min.	±0,1		pcs.
size	744284xxx	12,30	12,30	24,00	0,50	0,10	10,65	10,50	4,00	20,00	2,00	1,50	1,75	22,25	11,50	Polystyrene	250

		A	B	C	D	N	W1	W2	W3	W3
Tolerance		± 2,0	min.	min.	min.	± 2,0	+ 2,0	max.	min.	max.
Tape width	24mm	330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90	27,40



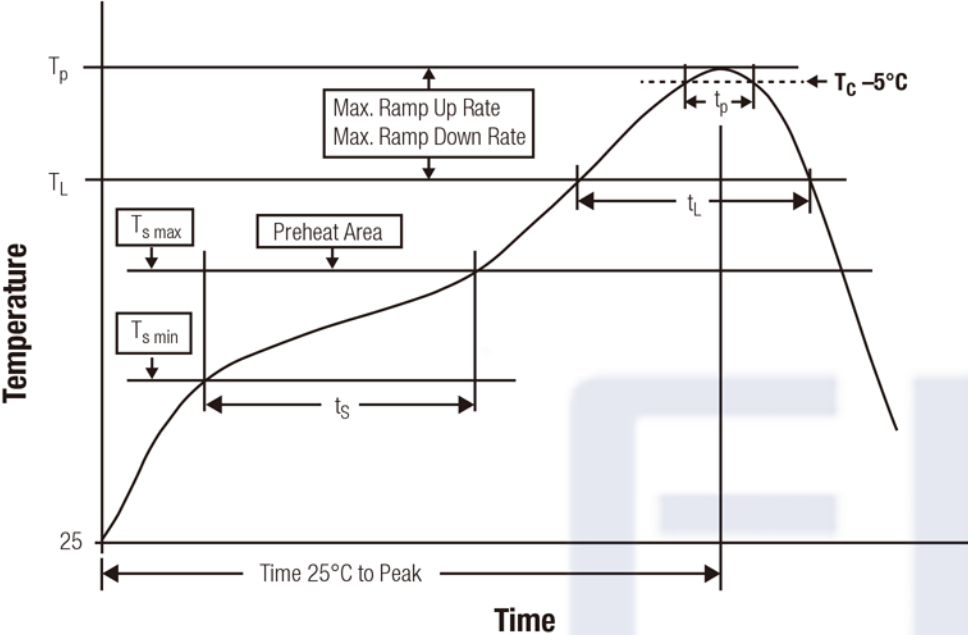
	Pull-of force
Tape width	24 mm
	0,1 N - 1,3 N

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FKS
Electronics

GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD 	
DESCRIPTION SMD Common Mode Line Filter			
ORDER CODE FKS744284102			
SIZE 1210	REVISION 003.010	STATUS Valid	

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

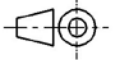
Profile Feature		Value
Preheat Temperature Min	$T_{s\ min}$	150 °C
Preheat Temperature Max	$T_{s\ max}$	200 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_P	see table below
Time within 5°C of actual peak tempreature	t_p	20 - 30 seconds
Ramp-down Rate (T_L to T_P)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly I Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

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