

DATA SHEET

SMD wideband chokes EMI-suppression products

Supersedes data of February 2002

2004 Sep 01

EMI-suppression products

SMD wideband chokes

SMD WIDEBAND CHOKES

SMD wideband choke WBS1.5-5/4.8/10

ITEM	SPECIFICATION
Strip material	copper (Cu), tin-lead (SnPb) plated, lead-free (Sn) available on request.
Solderability	"IEC 60068-2-58", Part 2, Test Ta, method 1
Mass	≈0.9 g
Taping method	"IEC 60286-3" and "EIA 481-2"

Grades, parameters and type numbers; see Fig.1

GRADE	$ Z_{typ} ^{(1)}$ (Ω)	at f (MHz)	TYPE NUMBER
3S4	230	10	WBS1.5-5/4.8/10-3S4
	400	50	
	430	100	
4B1	275	25	WBS1.5-5/4.8/10-4B1
	500	100	
	350	300	

Note

1. Typical values, $|Z|_{min}$ is -20%.

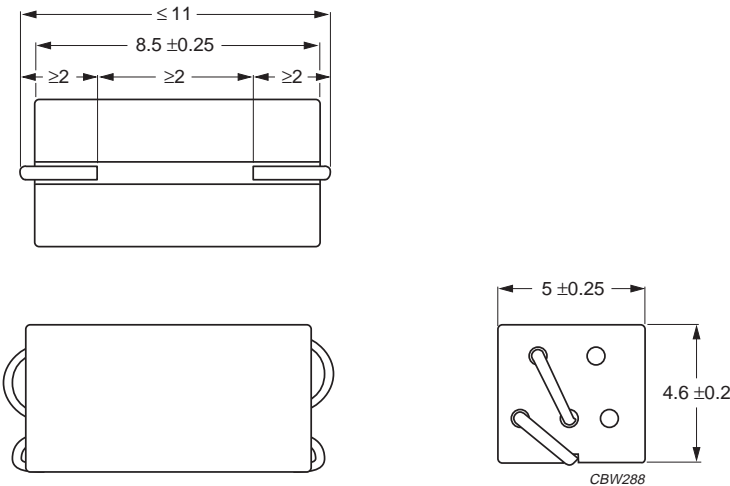
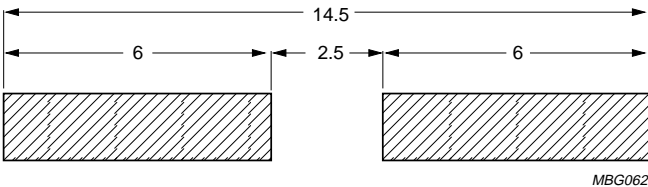


Fig.1 WBS1.5-5/4.8/10.



Dimensions of solder lands are based on a solder paste layer thickness of approximately 200 μ m (\approx 0.7 mg solder paste per mm^2).

Fig.2 Solder lands for reflow soldering of WBS1.5-5/4.8/10.

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SMD wideband choke WBS2.5-5/4.8/10

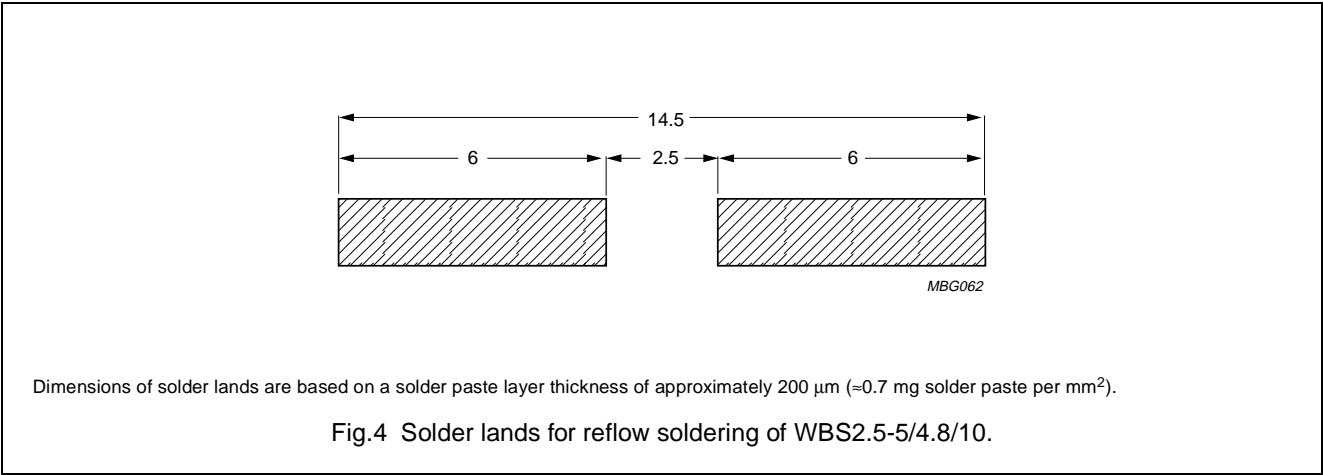
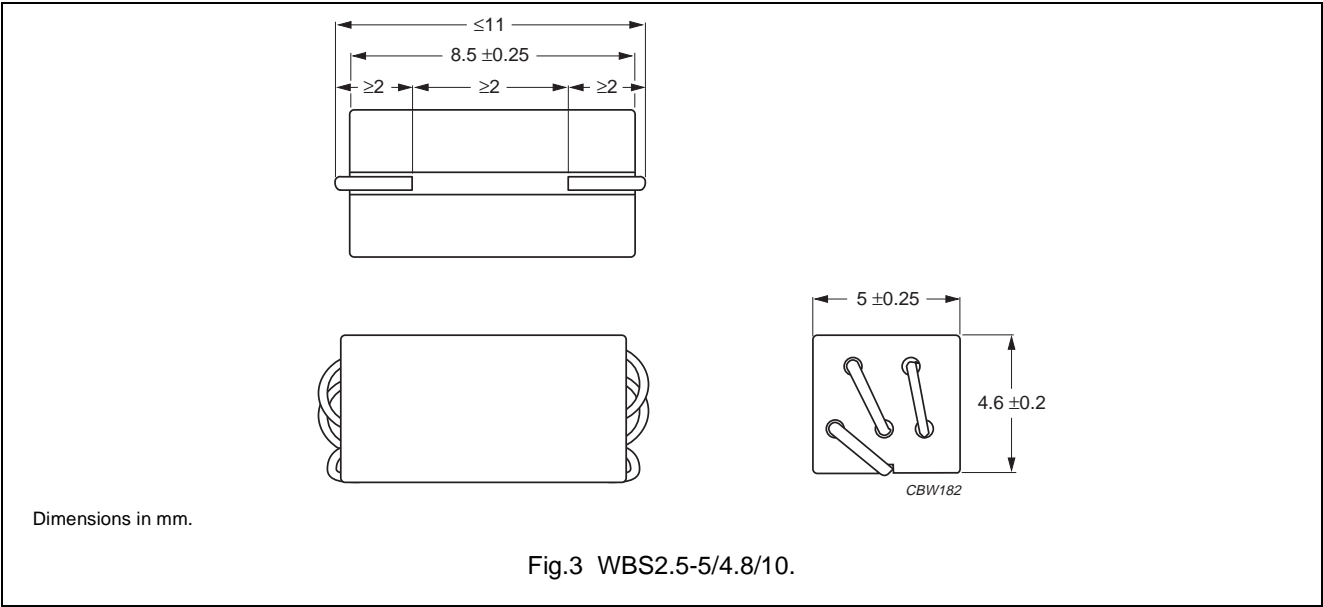
ITEM	SPECIFICATION
Strip material	copper (Cu), tin-lead (SnPb) plated, lead-free (Sn) available on request.
Solderability	"IEC 60068-2-58", Part 2, Test Ta, method 1
Mass	≈0.9 g
Taping method	"IEC 60286-3" and "EIA 481-2"

Grades, parameters and type numbers; see Fig.3

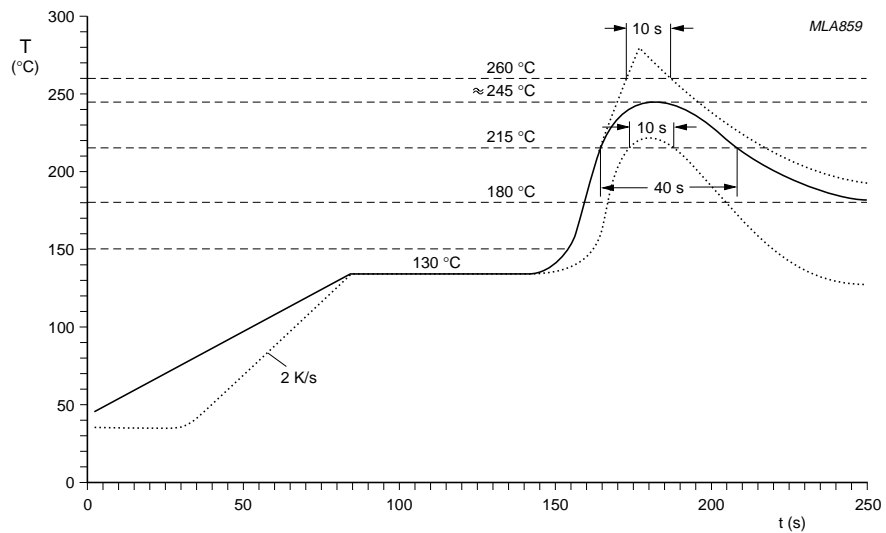
GRADE	$ Z_{typ} ^{(1)}$ (Ω)	at f (MHz)	TYPE NUMBER
3S4	300	10	WBS2.5-5/4.8/10-3S4
	625	50	
	600	100	
4B1	485	25	WBS2.5-5/4.8/10-4B1
	850	100	
	350	300	

Note

1. Typical values, $|Z|_{min}$ is -20%.

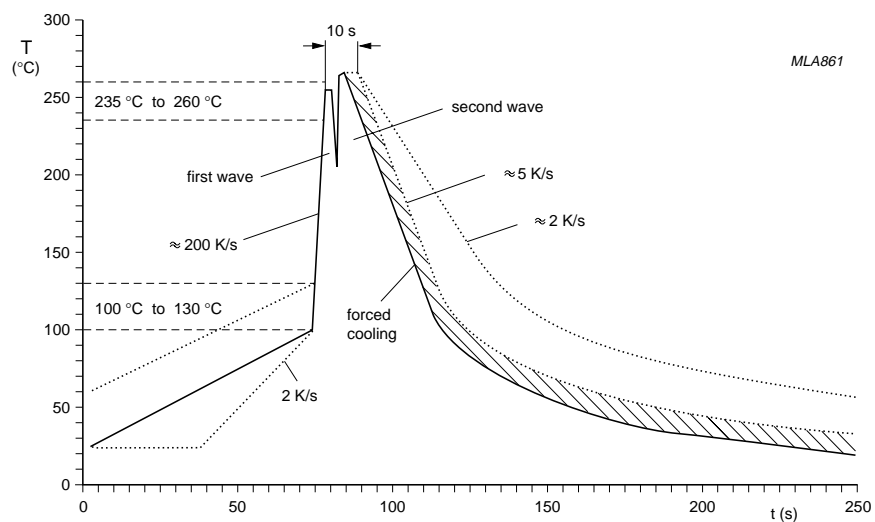


Soldering profiles



Typical values (solid line).
Process limits (dotted lines).

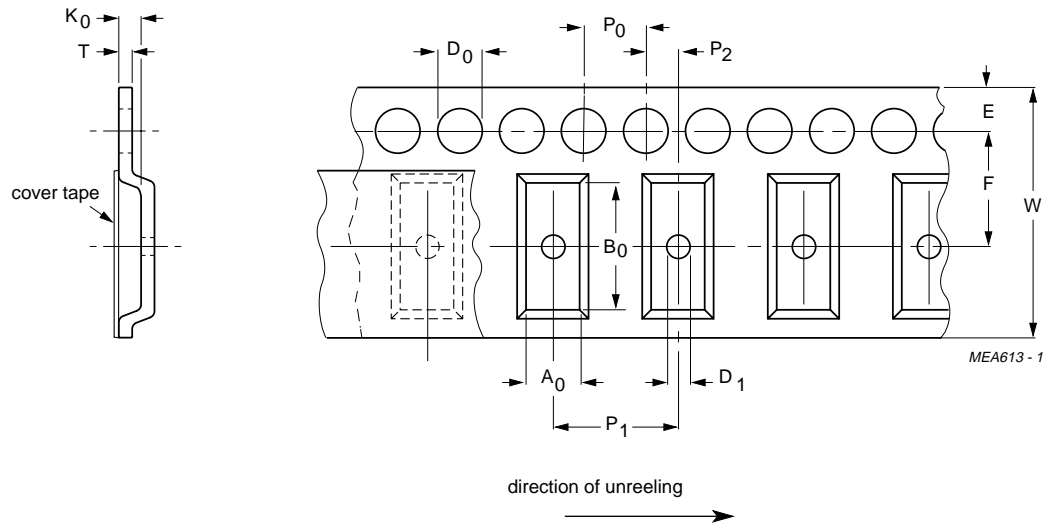
Fig.5 Reflow soldering.



Typical values (solid line).
Process limits (dotted lines).

Fig.6 Double wave soldering.

BLISTER TAPE AND REEL DIMENSIONS



For dimensions see Table 1.

Fig.7 Blister tape.

Table 1 Physical dimensions of blister tape; see Fig.7

SIZE	DIMENSIONS (mm)	
	WBS1.5-5/4.8/10	WBS2.5-5/4.8/10
A_0	5.51	5.51
B_0	11	11
K_0	5.03	5.03
T	0.36	0.36
W	24	24
E	1.75	1.75
F	11.5	11.5
D_0	1.5	1.5
D_1	≥ 1.5	≥ 1.5
P_0	4.0	4.0
P_1	8.0	8.0
P_2	2.0	2.0

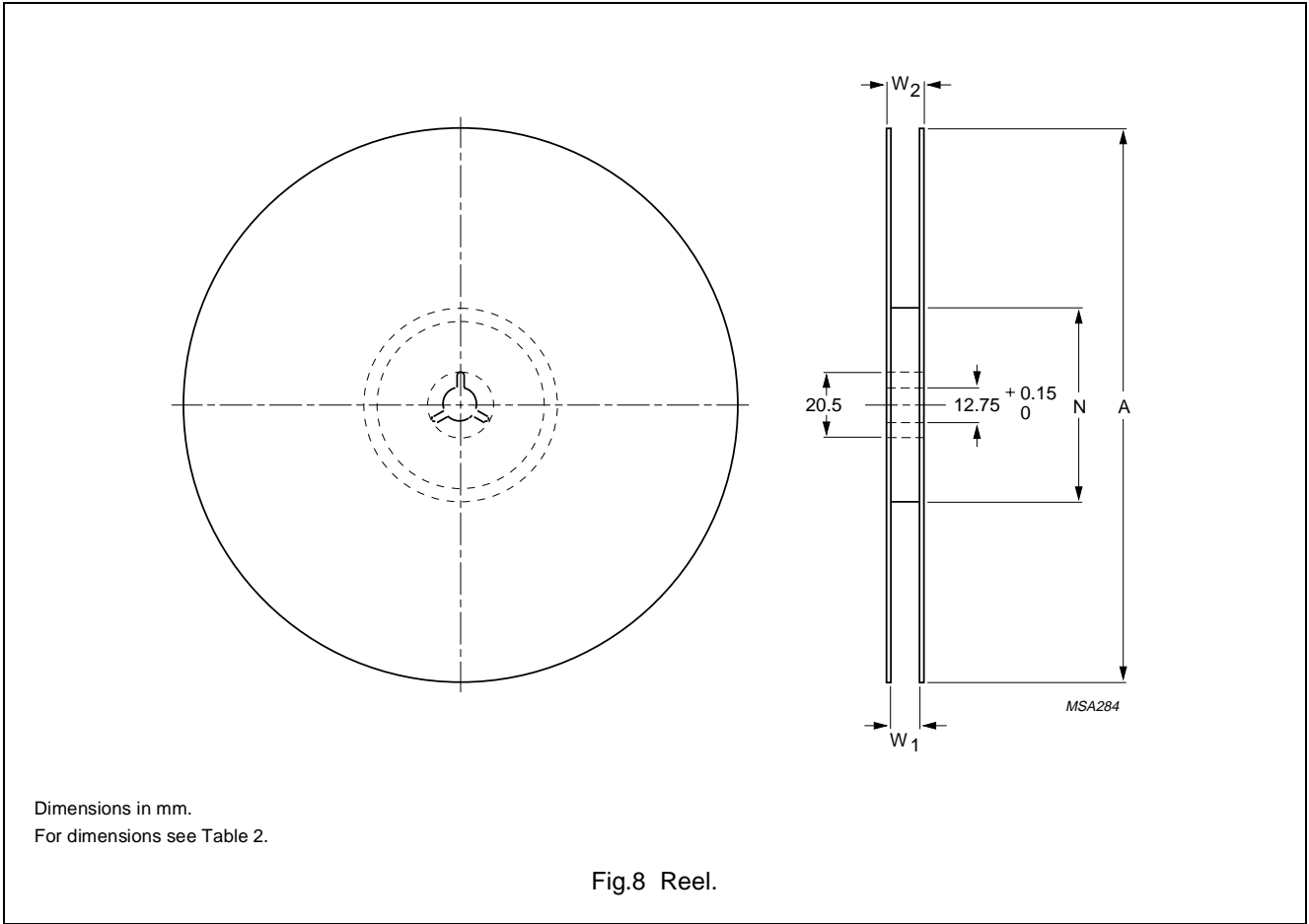


Table 2 Reel dimensions; see Fig.8

SIZE	DIMENSIONS (mm)			
	A	N	W ₁	W ₂
24	330	100 ±5	24.4	≤28.4

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DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.
Product specification	Production	This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.

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Preferred		These products are recommended for use in current designs and are available via our sales channels.
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