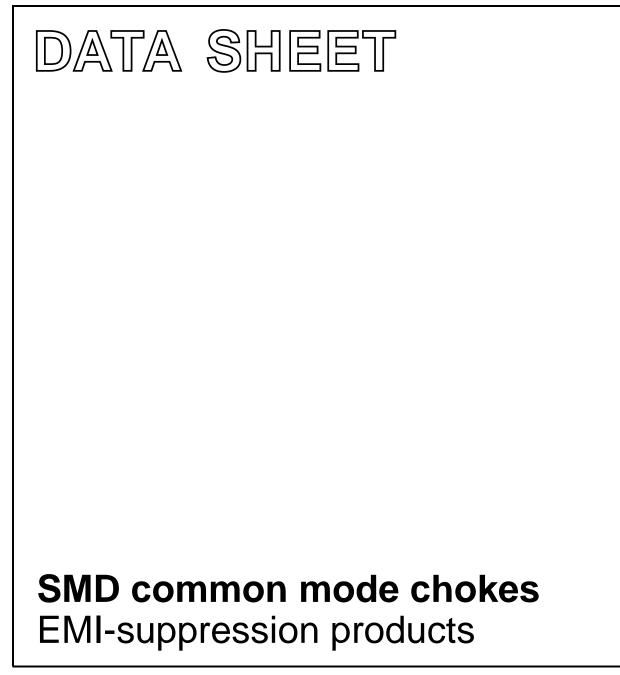
FERROXCUBE



Supersedes data of February 2002

2004 Sep 01



SMD common mode chokes

SMD COMMON MODE CHOKES FOR EMI-SUPPRESSION

General data

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

Grades, parameters and type numbers

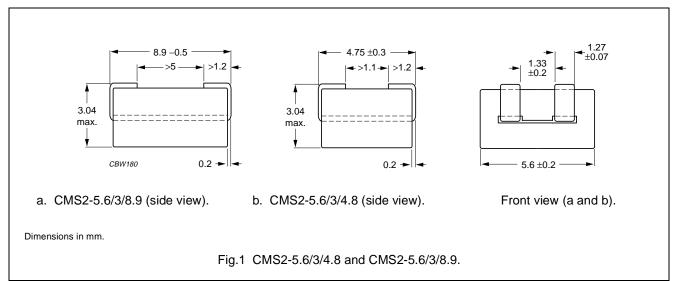
GRADE	Ζ_{typ} ⁽¹⁾ (Ω)	at f (MHz)	TYPE NUMBER		
CMS2-5.6/3/4.8; mass ≈0.3 g					
4S2	21	25	CMS2-5.6/3/4.8-4S2		
	35	100			
	50	300			
CMS2-5.6/3/8.9; mass ≈0.6 g					
4S2	38	25	CMS2-5.6/3/8.9-4S2		
	60	100			

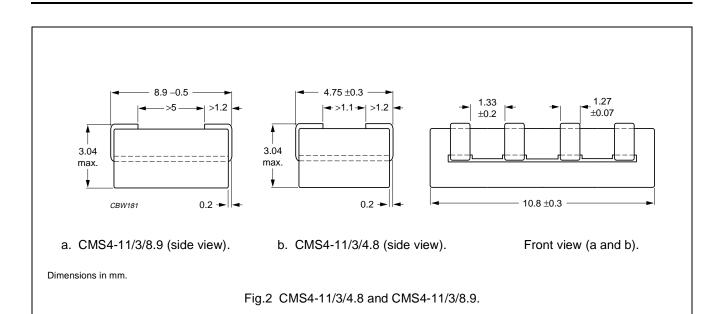
GRADE	$ \mathbf{Z}_{typ} ^{(1)}$ (Ω)	at f (MHz)	TYPE NUMBER
CMS4-11/3/4.	8; mass :	≈0.6 g	
4S2	12	25	CMS4-11/3/4.8-4S2
inner	23	100	
channel	42	300	
4S2	15	25	
outer	30	100	
channel	50	300	
CMS4-11/3/8.	9; mass =	≈1.1 g	
4S2	23	25	CMS4-11/3/8.9-4S2
inner	45	100	
channel	82	300	
4S2	27	25	
outer	58	100	
channel	97	300	

Note

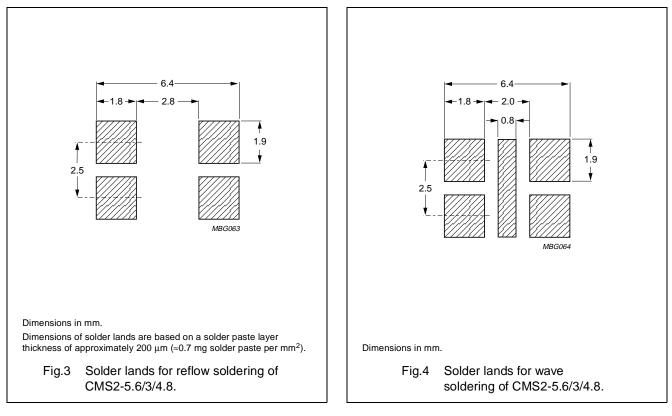
1. Typical values, $|Z|_{min}$ is –20%. DC resistance <0.6 m Ω .

Mechanical data

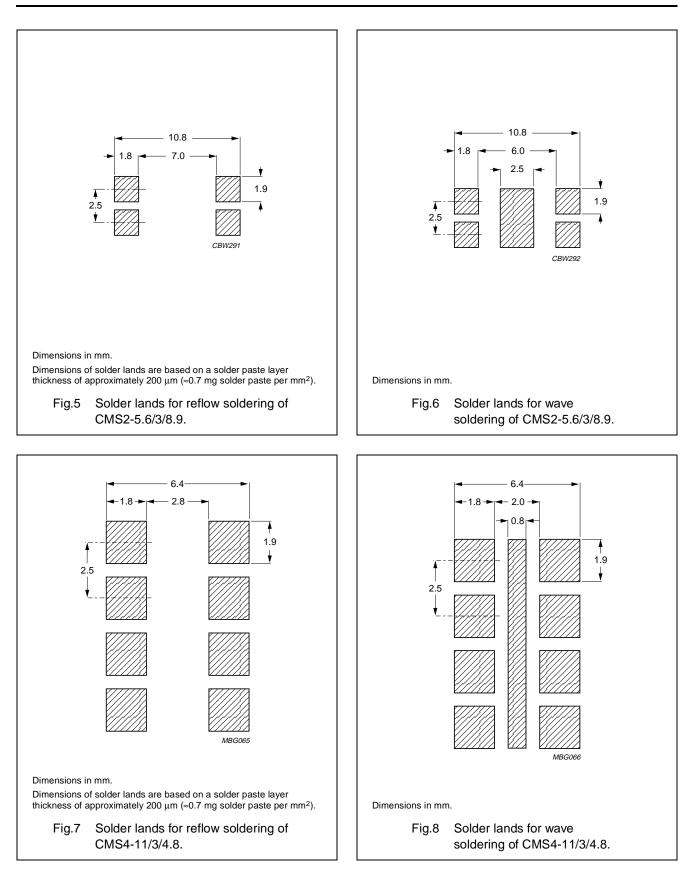




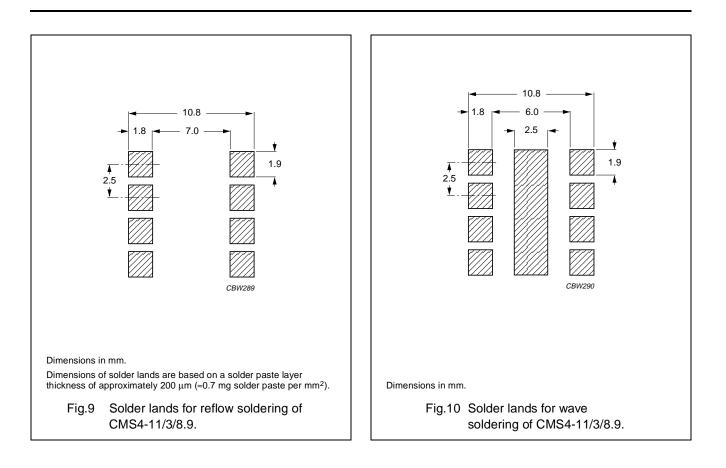
Recommended dimensions of solder lands



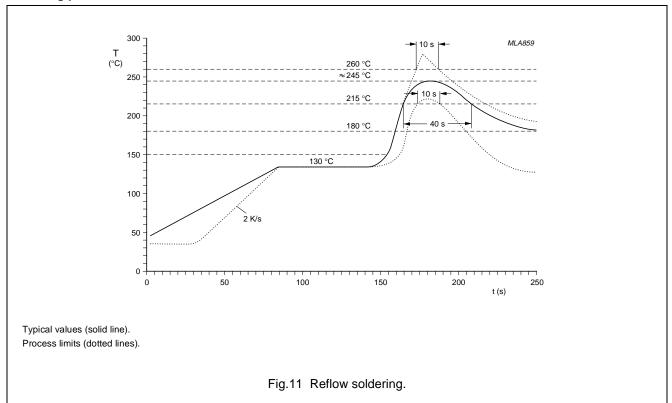
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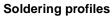


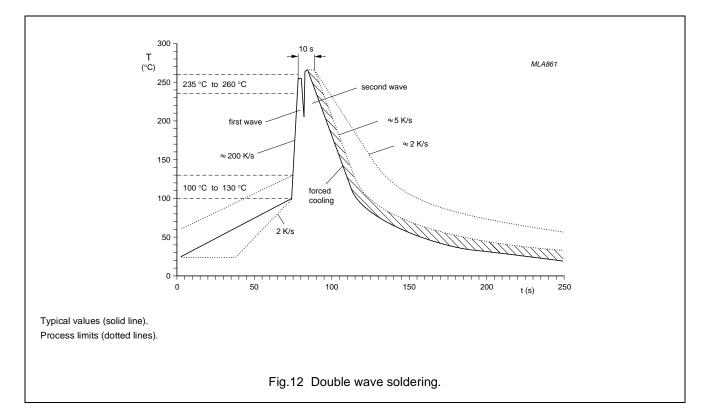
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BLISTER TAPE AND REEL DIMENSIONS

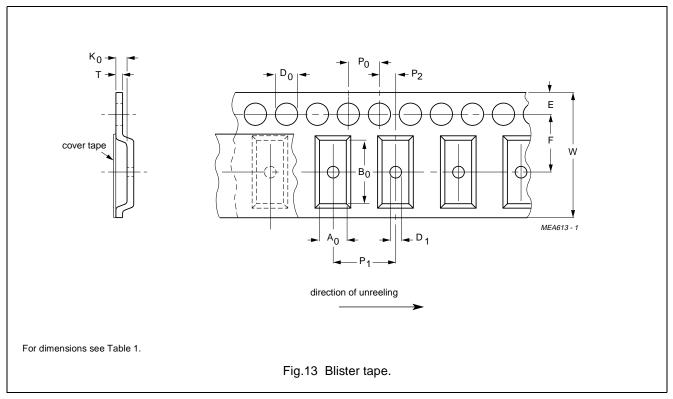


Table 1	Physical dimensions of blister tape; see Fig.13
	Thy block and block app, boothig. To

0175	DIMENSIONS (mm)				
SIZE	CMS2-5.6/3/4.8	CMS2-5.6/3/8.9	CMS2-5.6/3/8.9	CMS4-11/3/8.9	
A ₀	5.26	5.99	5.23	10.13	
B ₀	6.07	9.09	11.18	11.56	
K ₀	3.18	3.18	4.5	4.5	
т	0.3	0.33	0.34	0.36	
W	12	16	24	24	
E	1.75	1.75	1.75	1.75	
F	5.5	7.5	11.75	11.5	
D ₀	1.5	1.5	1.5	1.5	
D ₁	≥1.5	≥1.5	≥1.5	≥1.5	
P ₀	4.0	4.0	4.0	4.0	
P ₁	8.0	8.0	8.0	16.0	
P ₂	2.0	2.0	2.0	2.0	

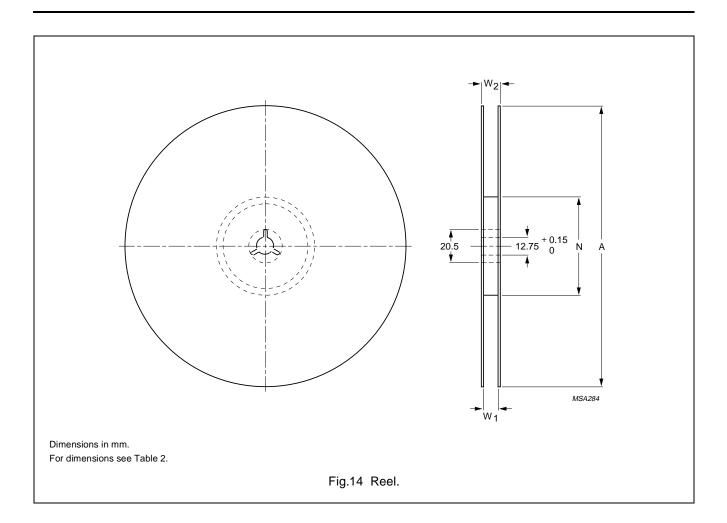


Table 2	Reel dimensions; see Fig.14
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SIZE		DIMENSIC		
SIZE	Α	N	W ₁	W ₂
12	330	100 ±5	12.4	≤16.4
16	330	100 ±5	16.4	≤20.4
24	330	100 ±5	24.4	≤28.4

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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.

DISCLAIMER

Life support applications — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.

PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION	
Prototype	prot	These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.	
Design-in	des	These products are recommended for new designs.	
Preferred		These products are recommended for use in current designs and are available via ou sales channels.	
Support	sup	These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.	