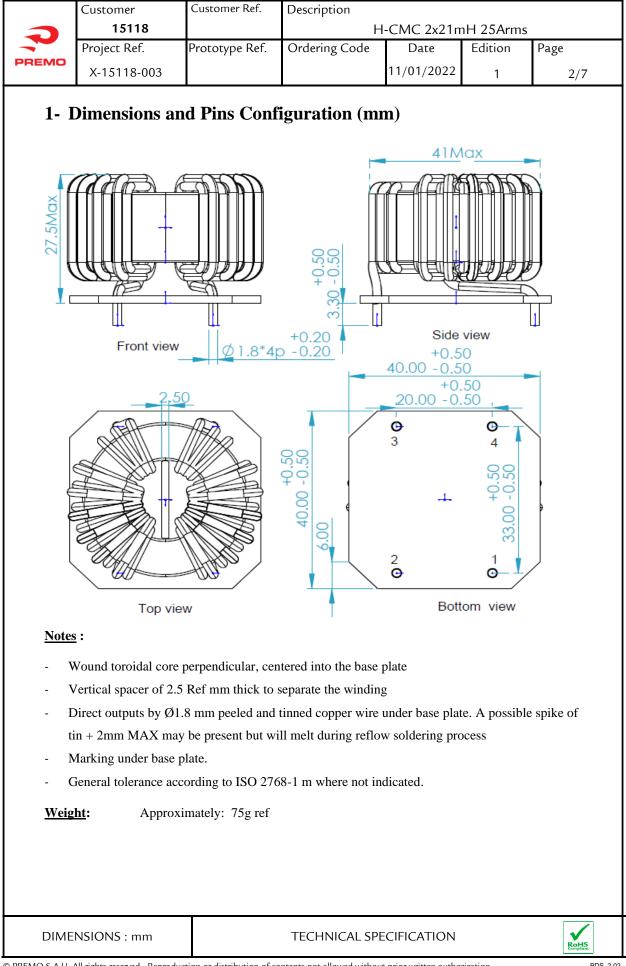
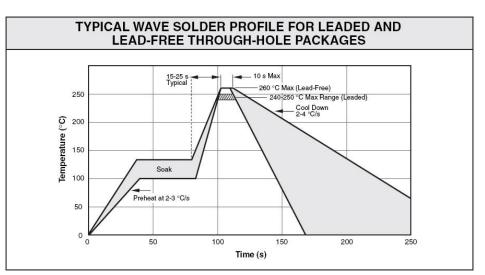
	Customer	Customer Ref.	Description				
	15118			I-CMC 2x21n			
PREMO	Project Ref.	Prototype Ref.	Ordering Code	Date	Edition	Page	
	X-15118-003	3		11/01/2022	1	1/7	
Technical Specification							
Made	by		on Mode Ch mH 25Arms		Appro	ved by	
(R&D Engi		(R&D Manager)		uality)	(Cust	omer)	
Date: 11/01/2023		Date: 11/01/2023	Date:	12/01/2023	Date:		
Signature:		Signature:	Signat	ure:	Signatur	e:	
_{Arthur} .z <i>Arthur.Z</i> Premo.	leng .S.L	R. Rodriguez	me	g Mg. Then			
DIME	NSIONS : mm		TECHNICAL SP	ECIFICATION		Romes	



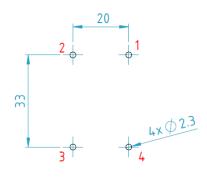
		Customer	Customer Ref.	Description				
N		15118		H-CMC 2x21mH 25Arms				
PREMO	Project Ref.	Prototype Ref.	Ordering Code	Date	Edition	Page		
	X-15118-003			11/01/2022	1	3/7		

2- Soldering and recommended Pad Layout

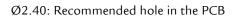
2.1 <u>Soldering profile</u>



2.2 <u>Recommended Pad Layout</u>



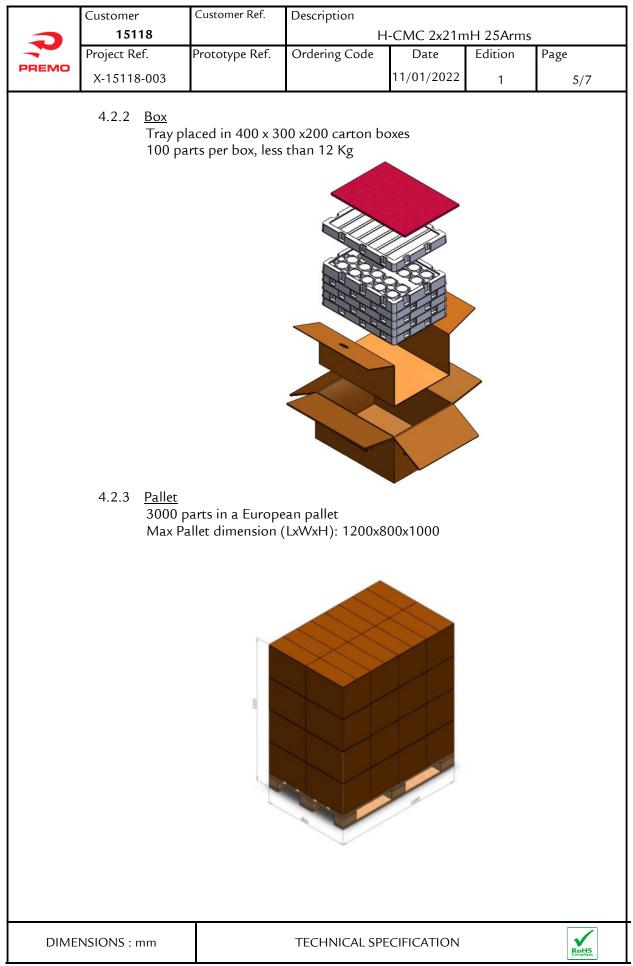
Top View



3-Bill of Materiasl

Part	Material Type	ĺ		
Core	Nanocrystalline toroid core / PET Rynite - Class F/155°C - UL94V-0			
Wire	Enamelled copper wire Class H (180°C MIN) Grad2 / UL			
Base plate	FR4 (TG150°C class - UL94 V-0)			
Glue for assembling	ibling Epoxy			
Outputs	Tinned RoHS			
IMENSIONS : mm	TECHNICAL SPECIFICATION			

	Customer 15118	Customer Ref.	Description H-CMC 2x21mH 25Arms			
	Project Ref.	Prototype Ref.	Ordering Code	Date	Edition	Page
PREMO	X-15118-003			11/01/2022	1	4/7
4.1	<u>Marking</u>		the base plate with DD : Day MM : Month YY : Year	following info	rmation, A o	dot (.)
4.2	<u>Packaging</u> 4.2.1 <u>Tray</u> Plasti	c tray 375 x 275	(LxW): 20 parts p	per tray		
DIME	NSIONS : mm		TECHNICAL SPI	Ecification		Rotts



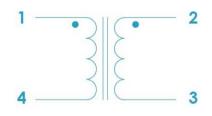
	Customer	Customer Ref.	Description					
PREMO	15118		H-CMC 2x21mH 25Arms					
	Project Ref.	Prototype Ref.	Ordering Code	Date	Edition	Page		
	X-15118-003			11/01/2022	1	6/7		

3- Electrical Parameters

	Symbol	MIN value	TYP value	MAX value	Unit	Test condition (25±5°C)
Turn ratio	1-4 / 2-3	0.98	1	1.02	-	10kHz – 1V
Inductance @ 10kHz	$L_{1-4} = L_{2-3}$	13.7*	21	30.5	mH	10kHz-0.3V
Inductance @ 100kHz	$L_{1-4} = L_{2-3}$	3*	5	7.5	mH	100kHz-0.3V
Leakage inductance	L ₁₋₄	/	14.5	/	μH	100kHz-0.1V 2-3 shorted
DC resistance	W1=W2	/	6.5	10	mΩ	DC@25°C
Dielectric Strenght test*	DWI	-	-	3*	mA	between W1 and W2 1.5KVAC @ 50Hz ⁽¹⁾

(1) 1min for qualification / 3sec in mass production
Critical characteristics are marked with a red asterisk (*)

4- Electrical Diagram



5- Functional Performances

7.1 <u>Operation</u>

Common Mode Choke 2 x 21mH -25Arms

6- Temperature range

Operating temperature: -40°C/+150°C Storage temperature: -40°C/+125°C

The component shall be cooled down with an adapted cooling system.

TECHNICAL SPECIFICATION



	Customer	Customer Ref.	Description					
P	15118		Н	-CMC 2x21n	nH 25Arms			
•	Project Ref.	Prototype Ref.	Ordering Code	Date	Edition	Page		
PREMO	X-15118-003			11/01/2022	1	7/7		
Edition	Changed by	Date	Change description					
Lattion	Changed by	Date		0	•			
0.0	Arthur. Z	22/04/2022	-Preliminary document. All the parameters on this document have to be validated on first prototypes					
0.1	Arthur. Z	24/07/2022	Update spec					
0.2	Arthur. Z	11/08/2022	Add Ls & Frequency curve 4.2+/-0.5 to 3.3+/-0.5					
1	Arthur. Z	11/01/2022	Add _ Packaging					
	1	I	4					

DIMENSIONS : mm

TECHNICAL SPECIFICATION

