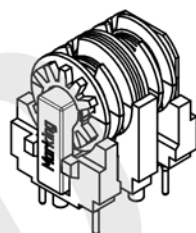
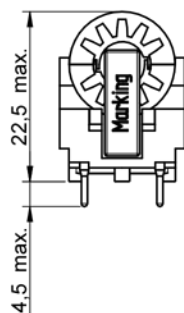
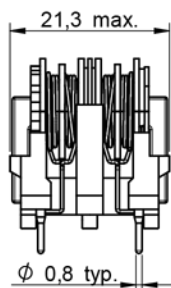
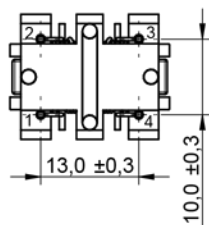


Dimensions: [mm]

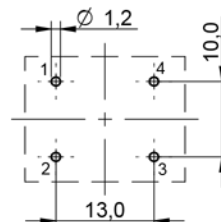


Scale - 1:1

Product Marking:

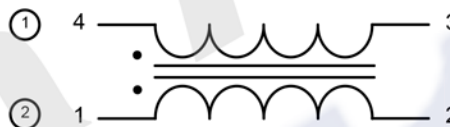
Marking	7448640409
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Recommended Land Pattern: [mm]



Scale - 1:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		2		
Inductance	L	10 kHz/ 100 mV	2.2	mH	min.
Inductance	L	10 kHz/ 100 mV	2.8	mH	typ.
Rated Current	I _R	@ 70 °C/ ΔT < 55 K	1.6	A	max.
DC Resistance	R _{DC}	@ 20 °C	0.17	Ω	±15%
Rated Voltage	V _R	50 Hz	250	V (AC)	max.
Insulation Test Voltage	V _T	50 Hz/ 5 mA/ 2 sec.	2000	V (AC)	

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACH Approval	Conform or declared [(EC)1907/2006]
Component Qualification	AEC-Q200 Grade 1

General Information:

It is recommended that the temperature of the component does not exceed +125 °C under worst case conditions

Operating Temperature	-40 up to +125 °C
Ambient Temperature (referring to I _R)	-40 up to +70 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Temperature Rise < 55 K	
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	



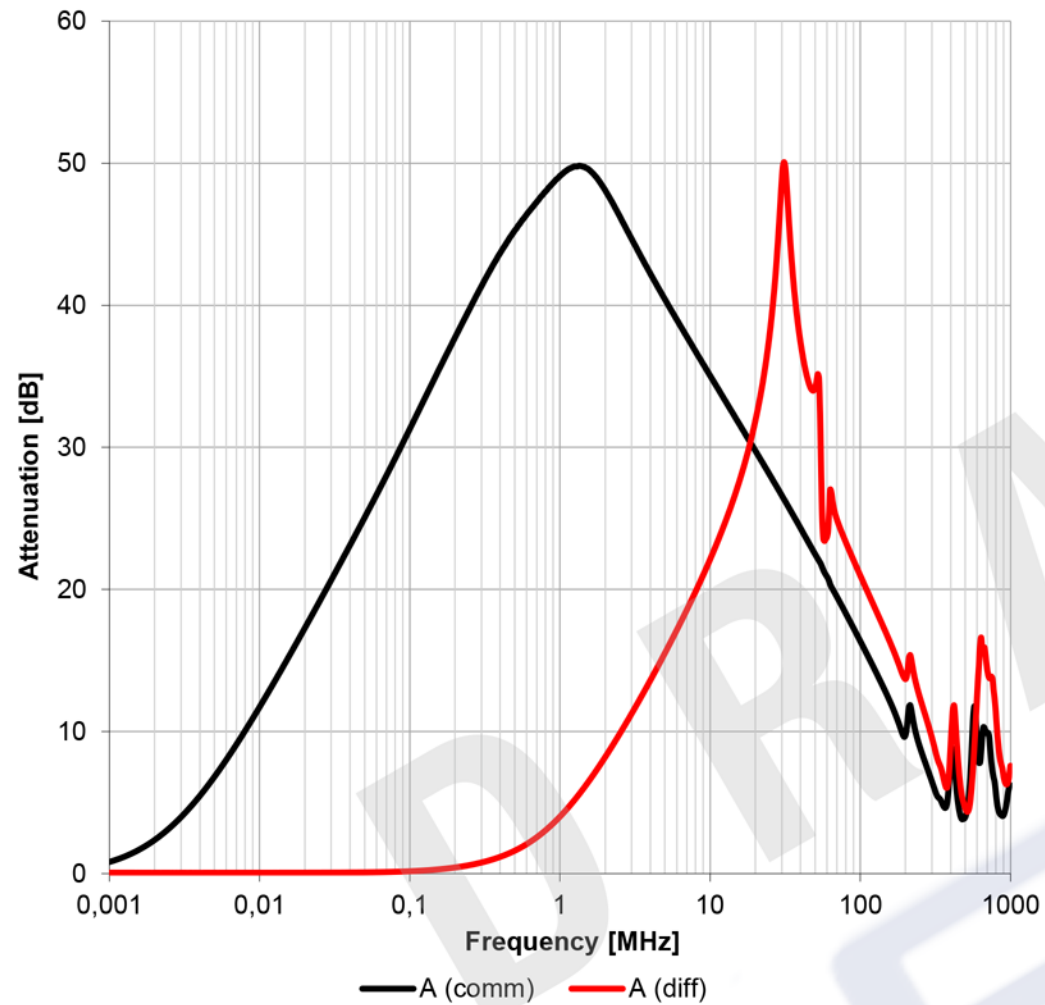
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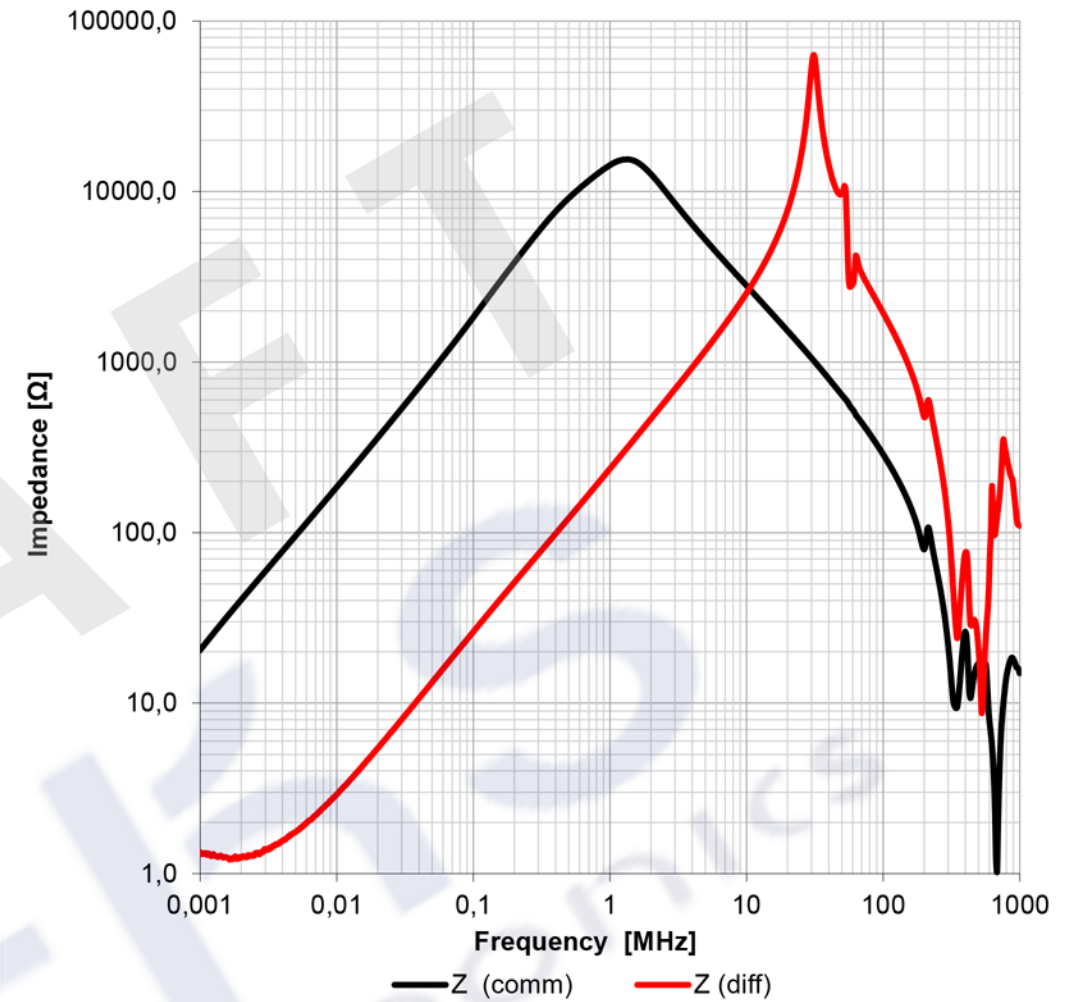
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
Address: Building B1, The West Cloud Valley, Fengxi New City,
Xixian New Area, Xianyang City, Shaanxi Province, China.
Tel: 0086 29 8868 5333 Fax: 0086 29 8868 0913
[Http://www.fks-tech.com](http://www.fks-tech.com)

DATE (YYYY-MM-DD)	2019-11-01	GENERAL TOLERANCE	DIN ISO 2768-1m	PROJECTION METHOD	
DESCRIPTION				ORDER CODE	
Common Mode Power Line Choke				FKS7448640409	
SIZE/TYPE				STATUS	
UT20V				Valid from 2019-11-01 due to PCN	

Typical Insertion Loss:

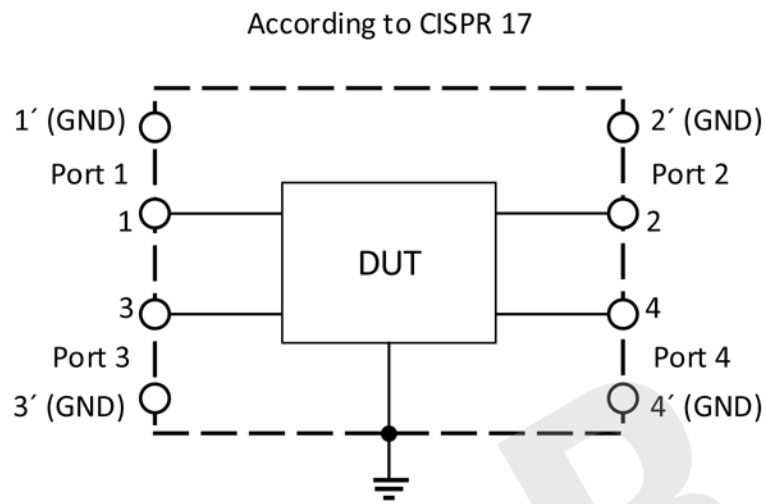


Typical Impedance Characteristics:



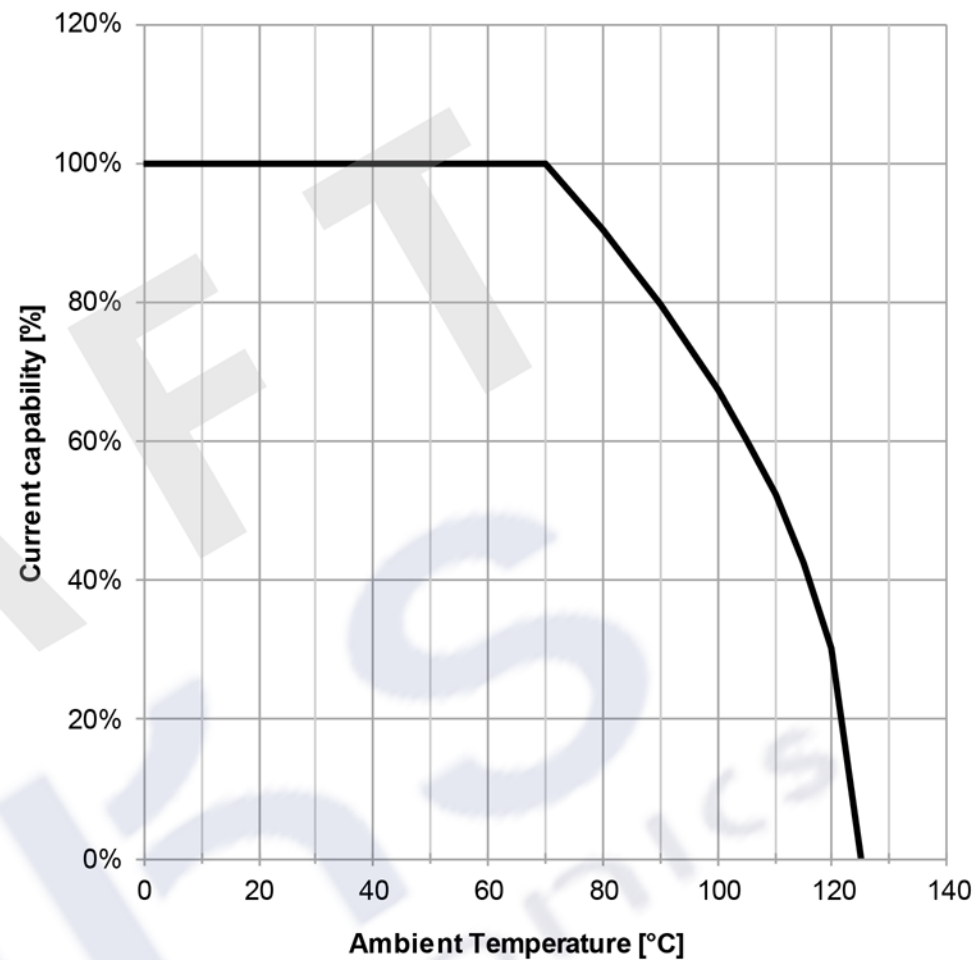
 RoHS COMPLIANT  REACH COMPLIANT  AEC Q200 125 °C GRADE 1			DATE (YYYY-MM-DD) 2019-11-01		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD 	
DESCRIPTION Common Mode Power Line Choke						ORDER CODE FKS7448640409		
  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 Http://www.fks-tech.com			SIZE/TYPE UT20V		STATUS Valid from 2019-11-01 due to PCN			

Test Setup:



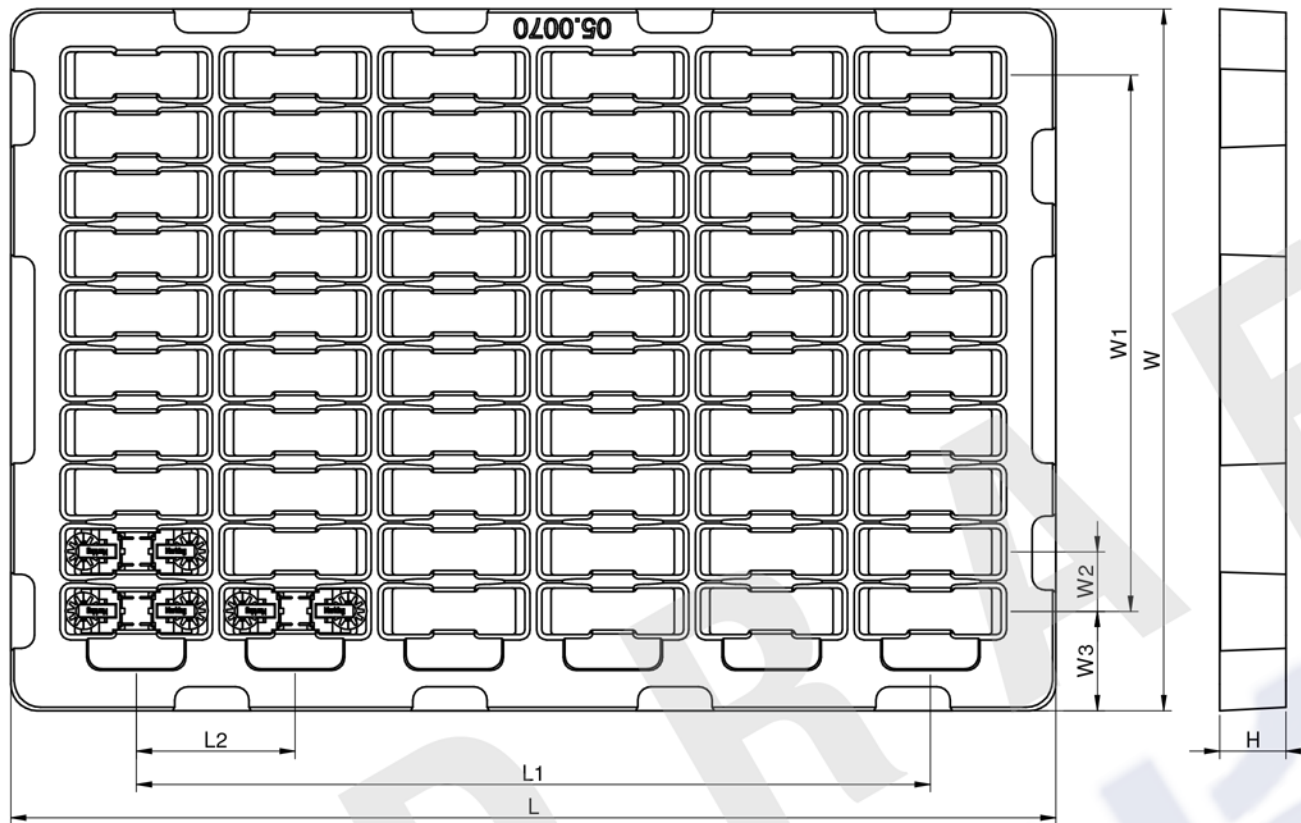
Network Analyzer: Keysight E5080A or equivalent

Derating Curve:

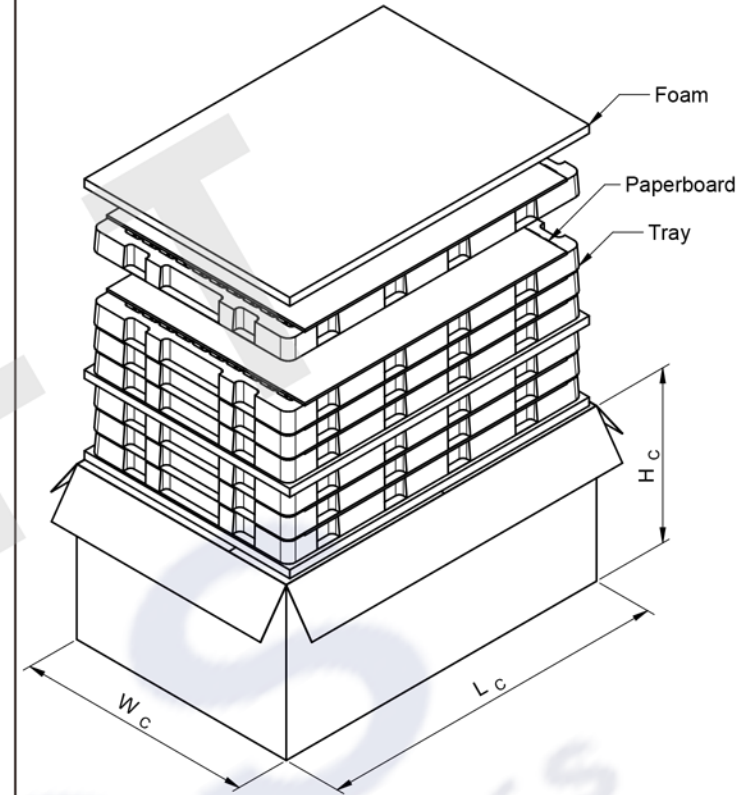


RoHS COMPLIANT REACH COMPLIANT AEC Q200 125 °C GRADE 1		DATE (YYY-MM-DD) 2019-11-01		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD 			
FKS Electronics  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 Http://www.fks-tech.com <td colspan="4">DESCRIPTION Common Mode Power Line Choke</td> <td colspan="2">ORDER CODE FKS7448640409</td>				DESCRIPTION Common Mode Power Line Choke				ORDER CODE FKS7448640409	
				SIZE/TYPE UT20V				STATUS Valid from 2019-11-01 due to PCN	

Packaging Specification - Tray and Carton: [mm]



L (mm)	L1 (mm)	L2 (mm)	W (mm)	W1 (mm)	W2 (mm)	W3 (mm)	H (mm)	Qty. (pcs.)	Material
typ.	typ.	typ.	typ.	typ.	typ.	typ.	typ.		
395,00	300,00	60,00	265,00	206,00	22,90	37,50	23,00	120	PS



L _c (mm)	W _c (mm)	H _c (mm)	No. of Tray	No. of Paperboard	No. of Foam	Qty. (mm)	Material
typ.	typ.	typ.	pcs.	pcs.	pcs.	pcs.	
415,00	280,00	203,00	7	14	3	840	Paper



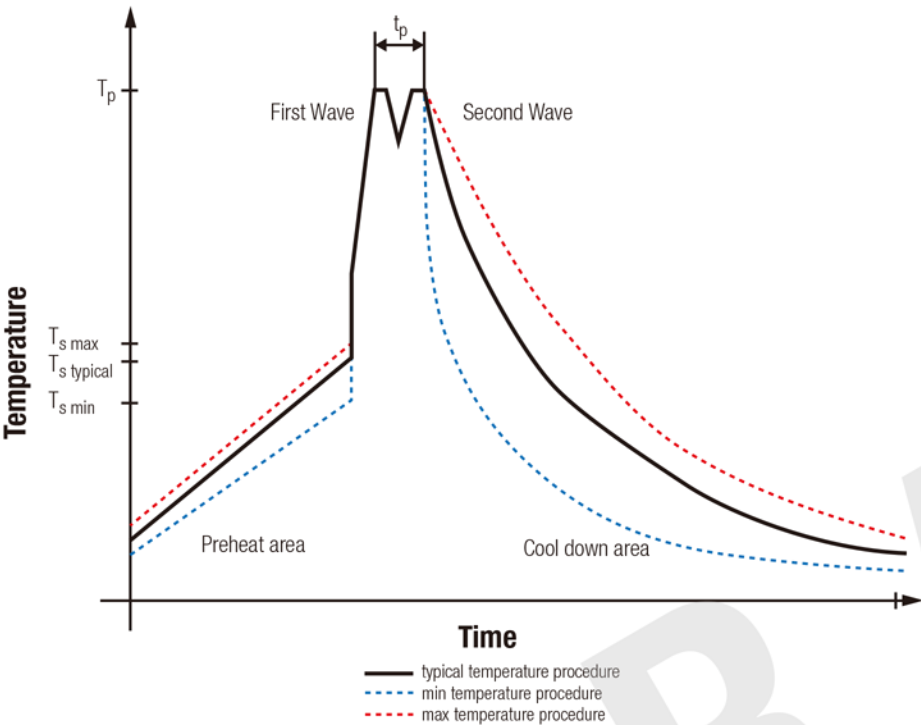
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DATE (YYYY-MM-DD) 2019-11-01	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION Common Mode Power Line Choke		ORDER CODE FKS7448640409
SIZE/TYPE UT20V		STATUS Valid from 2019-11-01 due to PCN

Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_{s\ min}$	100 °C	100 °C
Preheat Temperature Typical	$T_{s\ typical}$	120 °C	120 °C
Preheat Temperature Max	$T_{s\ max}$	130 °C	130 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	70 seconds	70 seconds
Ramp-up Rate	ΔT	150 °C max.	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second	~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second	~ 3.5 K/ second
Ramp-down Rate, Max		~ 5 K/ second	~ 5 K/ second
Time 25 °C to 25 °C		4 minutes	4 minutes

refer to EN61760-1:2006

		DATE (YYYY-MM-DD) 2019-11-01		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD 	
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