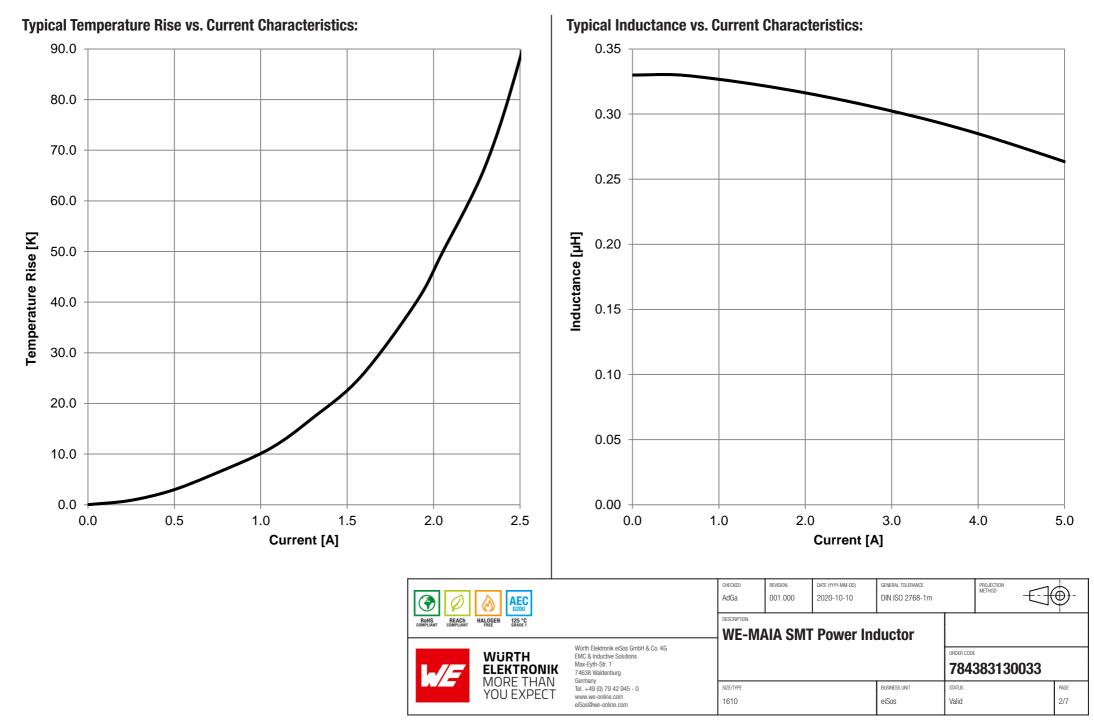
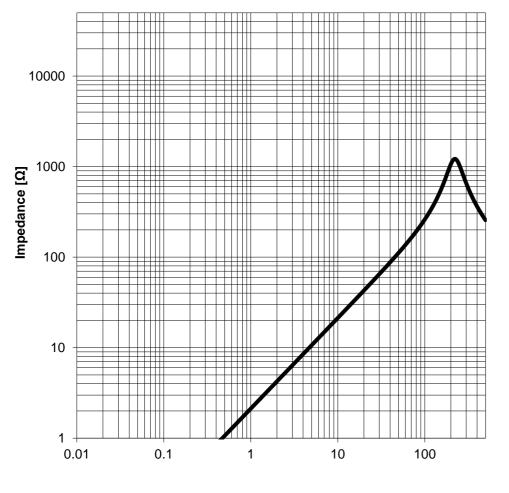
Dimensions: [mm] **Recommended Land Pattern: [mm] Electrical Properties:** Properties **Test conditions** Value Unit Tol. Solder Resist Inductance 100 kHz/ 10 mA 0.33 μH ±30% **Rated Current** $\Delta T = 40 \text{ K}$ 1.9 А I_{R} max. |ΔL/L| < 20 % **Saturation Current** 4.9 А ISAT typ. R_{DC} 65 mΩ DC Resistance @ 20 °C typ. ∞ DC Resistance R_{DC} @ 20 °C 84 mΩ max. Self Resonant Frequency f_{res} 215 MHz typ. **Certification:** 0,5 ±0,2 0,4 **RoHS Approval** Compliant [2011/65/EU&2015/863] 1,8 **REACh Approval** Conform or declared [(EC)1907/2006] **Halogen Free** Conform [JEDEC JS709B] No vias and traces in restricted area. 1,6 ±0,2 Scale - 15:1 **Halogen Free** Conform [IEC 61249-2-21] **Automotive Approval** Released Schematic: **Component Qualification** AEC-Q200 Grade 1 max. 1.0 **General Properties:** Ambient Temperature (referring -40 up to +85 °C to I_R) **Operating Temperature** -40 up to +125 °C \sim ±0,2 **Storage Conditions (in original** < 40 °C; < 75 % RH packaging) 1,6 **Moisture Sensitivity Level (MSL)** 1 Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently Scale - 15:1 CHECKED REVISION DATE (YYYY-MM-DD) GENERAL TOLERANCE PROJECTION METHOD $\overline{(0)}$ AdGa 001.000 2020-10-10 DIN ISO 2768-1m DESCRIPTION RoHS REACh HALOGEN 125 °C **WE-MAIA SMT Power Inductor** Würth Elektronik eiSos GmbH & Co. KG ORDER CODE WURTH EMC & Inductive Solutions Max-Eyth-Str. 1 784383130033 **ELEKTRONIK** 74638 Waldenburg MORE THAN Germany Tel. +49 (0) 79 42 945 - 0 SIZE/TYPE BUSINESS UNIT STATUS PAGE YOU EXPECT www.we-online.com 1/7 1610 eiSos Valid eiSos@we-online.com

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wirth Elektronik elSos GmbH & Co KG must be information network etc... Worth Elektronik elSos GmbH & Co KG must be information network etc... Worth Elektronik elSos GmbH & Co KG must be information network etc... Worth Elektronik elSos GmbH & Co KG must be information network etc... Worth Elektronik elSos GmbH & Co KG must be information component which is used in electrical circuits there are electrical circuits there



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG products are nethiner designed nor intended for use agreement specifically governing such as a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such as a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such as a higher safety standard in (automotive control, train control, ship control), train control, t

Typical Impedance Characteristics:

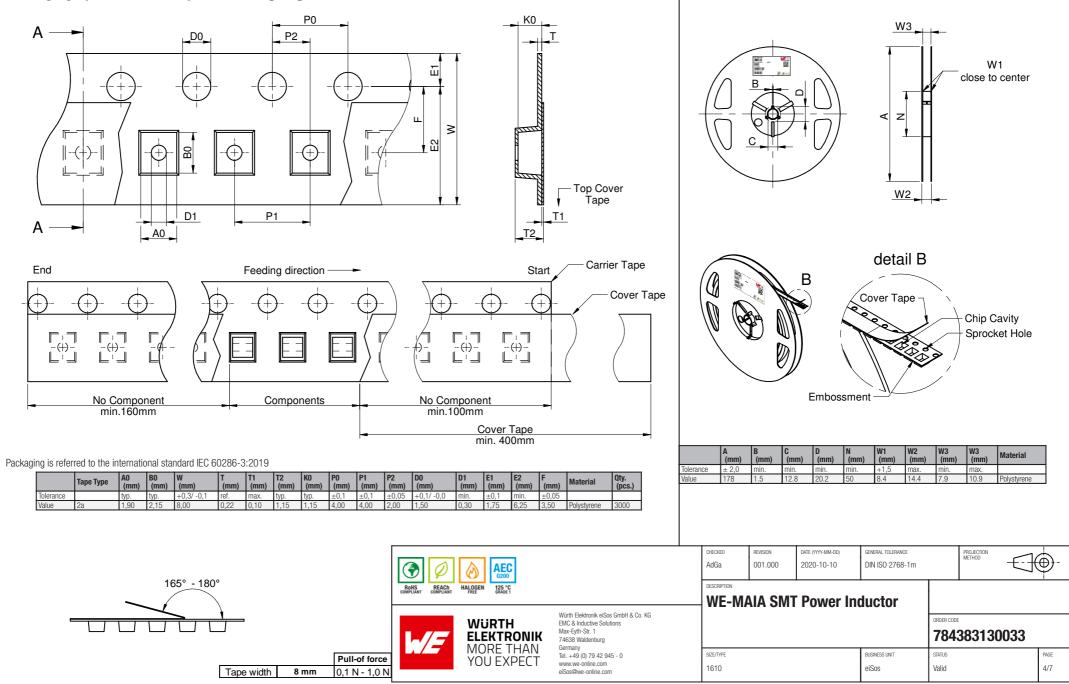


Frequency [MHz]

		CHECKED	REVISION 001.000	DATE (YYYY-MM-DD) 2020-10-10	general tolerance DIN ISO 2768-1m	PROJECTION METHOD	-	⊕ -
ROMS REACT HALOGEN 125 °C		DESCRIPTION	AIA SM1	Power Ind				
WÜRTH ELEKTRONIK KUCK TOLIAN						ORDER CODE	0033	
MORE THAN YOU EXPECT	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 1610			BUSINESS UNIT eiSos	status Valid		PAGE . 3/7

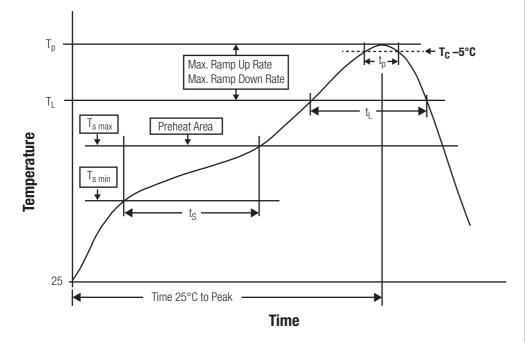
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG products are nethiner designed nor intended for use agreement specifically governing such as a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such as a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such as a higher safety standard in (automotive control, train control, ship control), train control, t

Packaging Specification - Tape and Reel: [mm]



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Warth Elektronik elSos GmbH & Co Kg products are netliner designed nor intended for use in equipment which is used in elevation intended for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use, Moreover Warth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in elevatival crucial the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every elevationic component which is used in elevatival crucial that require high astel elevatival require high astel elevatival to cause elevatival elevatival that and the elevatival elev

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 ${\rm t_s}$ from ${\rm T_s}_{\rm min}$ to ${\rm T_s}_{\rm max}$	t _s	60 - 120 seconds	
Ramp-up Rate (T _L to T _P)		3 °C/ second max.	
Liquidous Temperature	TL	217 °C	
Time \mathbf{t}_{L} maintained above \mathbf{T}_{L}	ť	60 - 150 seconds	
Peak package body temperature	Т _р	$T_p \le T_c$, see Table below	
Time within 5°C of actual peak temperature	t p	20 - 30 seconds	
Ramp-down Rate (T _P to T _L)		6 °C/ second max.	
Time 25°C to peak temperature		8 minutes max.	

refer to IPC/ JEDEC J-STD-020E

Make sure that you use the correct thickness of solder paste to avoid an insufficient soldering result. We recommend 100µm solder paste as a reference.

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly 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

ROHS REACH HARCEN 125 °C		CHECKED AdGa	REVISION 001.000	DATE (YYYY-MM-DD) 2020-10-10	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD)-	
		WE-MAIA SMT Power Inductor								
		Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany					ORDER CODE	38313003	33	
	MORE THAN YOU EXPECT	einnany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 1610			BUSINESS UNIT eiSos	status Valid		PAGE 5/7	

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical incurbic toris or performance.

Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-MAIA of Würth Elektronik eiSos GmbH & Co. KG:

General:

- This electronic component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any
 equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control,
 ship control), transportation signal, disaster prevention, medical, public information network, etc. where higher safety and reliability are
 especially required and/or if there is the possibility of direct damage or human injury.
- Electronic components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions
 specified in the datasheet are not met, the wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
 Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and
 sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.
- To improve the solderability of bottom termination components please refer to appnote ANP036 on our homepage.
- Make sure that you use the correct thickness of solder paste to avoid an insufficient soldering result. We recommend 100µm solder
 paste as a reference.

Cleaning and Washing:

Washing agents used during the production to clean the customer application might damage or change the characteristics of the wire
insulation, marking or plating. Washing agents may have a negative effect on the long-term functionality of the product.

Potting:

If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking
could lead to an incomplete seal, allowing contaminants into the core. Expansion could damage the components. We recommend a
manual inspection after potting to avoid these effects.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Packaging:

 The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Handling:

- Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.
- Applying currents with audio-frequency signals may result in audible noise due to the magnetostrictive material properties.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component. The operating temperature of the component shall not exceed the maximum temperature specified.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

		CHECKED	REVISION 001.000	DATE (YYYY-MM-DD) 2020-10-10	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	-⊕	
		WE-MAIA SMT Power Inductor							
		Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Gerrrany					ORDER CODE	383130033	
	MORE THAN YOU EXPECT		size/type 1610			BUSINESS UNIT eiSos	status Valid		PAGE 6/7

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG products are neither designed on rinended for use in areas such as military, aerospace, availation, nuclear control, train control, ship control, train control, ship control, train control, t

Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications. In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

CROPIESANT REACTION HAAGGEEN 225.0°		CHECKED AdGa	REVISION 001.000	DATE (YYYY-MM-DD) 2020-10-10	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	-	
		WE-MAIA SMT Power Inductor							
WURTH ELEKTRONIK MORE THAN		Würth Elektronik elöss GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com					ORDER CODE	383130033	
MORE THAN YOU EXPECT	size/type 1610				BUSINESS UNIT eiSos	status Valid		PAGE 7/7	

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wirth Elektronik elSos GmbH & Co KG products are neither designed on rinended for use in equipment which is used in effective (a transportation (automotive control, train control, ship control, train control, ship control, train control, trai

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Power Inductors - SMD category:

Click to view products by Wurth manufacturer:

Other Similar products are found below :

IHLP1616BZRZR10ML1 IDC5020ER681M VLBUC12060120R12LF3 LCRNJ12575GL470MN LLQPB201214T1R0M LLXND3030QKT470MNG LLQPB160807T4R7M LLAPB2016KKTR33M LBXND4040TKL330MDG LLXNE3030KKT4R7MN LSQEA201212T1R0M LSQEA201212T100M IHLP5050CEER4R7M06 7445402 74459010 SPB0705-R12M SPB0705-R10M SPB1005-R10M SPB1005-R15M SPB1005-R12M SPB1007-R22M SPB1007-R23M SPB1007-R17M SPB1007-R15M SPB1012-R15Y SPB1012-R13Y SPB1308-R44M SPB1308-R21M SPB1308-R32M SRN2012T-1R0K SRN2012T-220K SRN2012T-100K SRN2012T-4R7K SRN2012T-6R8K SRN2012T-2R2K SRN2012T-150K SRN3015C-3R3M SRN3015C-220M SRN3015C-2R2M SRN3015C-4R7M SRN3015C-470M SRN3015C-R68M SRN3015C-150M SRN3015C-1R0M SRN3015C-180M SRN3030HA-101M SRN3030HA-2R2Y SRN3030HA-470M SRN3030HA-4R7Y SRN3030HA-220M