

弊社半導体製品における REACH 規則への対応状況について

日頃からの RAMXEED 半導体製品へのご愛顧ありがとうございます。
弊社は法規制等の順守による環境に優しい製品の開発、製造を推進しております。

こうした活動の一環として、RAMXEED 半導体製品、および包装梱包材は、EU REACH 規則 "Regulation for Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), EC No.1907/2006" への対応状況に関しまして、以下であることをお知らせいたします。

記

1. 対象型格(本書の適用範囲):

表-1 に記載の型格

2. 制限物質への対応状況

上記対象型格の RAMXEED 半導体製品、およびそれらの包装梱包材は、REACH 規則 ^{*1} 付属書 17 ^{*2} に準拠しており、各規制条件での制限物質の含有は確認されておりません。

^{*1} REACH: Regulation for Registration, Evaluation, Authorization and Restriction of Chemicals
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 18 December 2006

^{*2} Annex XVII, Substances restricted under REACH (from Entry-1 to Entry-79)
e.g. COMMISSION REGULATION (EU) 2021/1297 of 4 August 2021 (Entry-68: C9-C14 PFCAs)
COMMISSION REGULATION (EU) 2021/2030 of 19 November 2021 (Entry-76)
COMMISSION REGULATION (EU) 2023/1464 of 14 July 2023 (Entry-77)
COMMISSION REGULATION (EU) 2023/2055 of 25 September 2023 (Entry-78)
COMMISSION REGULATION (EU) 2024/1328 of 16 May 2024 (Entry-70 is replaced)
COMMISSION REGULATION (EU) 2024/2062 of 19 September 2024 (Entry-79)
COMMISSION REGULATION (EU) 2025/660 of 1 April 2025 (Entry-50a)

<https://echa.europa.eu/substances-restricted-under-reach>

3. 認可対象物質への対応状況

上記対象型格の RAMXEED 半導体製品、およびそれらの包装梱包材について、0.1wt%以上の認可対象物質

(付属書 14) ^{*3} の含有は確認されていません。

^{*3} Annex XIV, Authorization List (from Entry-1 to Entry-59, the latest list was updated at 8 April 2022),
total 59 chemical substances

<https://echa.europa.eu/authorisation-list>

4. 認可候補物質への対応状況

上記対象型格の RAMXEED 半導体製品、およびそれらの包装梱包材について、0.1wt%以上の認可候補リスト対象物質 ^{*4} の含有は確認されていません ^{*5}。

^{*4} Candidate List of Substances of Very High Concern for authorization (the latest list was updated at 21 January 2025, SVHC 32nd), total 247 chemical substances

<https://echa.europa.eu/candidate-list-table>

^{*5} チタン酸ジルコン酸鉛(PZT)について

弊社 FeRAM 製品は、製品特性のため PZT の意図的添加がありますが、成形品 (the first article) 中の含有濃度は閾値 (0.1wt%) 以下であることを確認しております。

上記は、サプライチェーンを通じた含有情報の収集結果によるものであり、現時点での知見に基づきます。

また、REACH を正しくご理解いただくためにも、REACH 規則に関する詳細につきましては、

ECHA (European Chemical Agency: <http://echa.europa.eu/>) の URL よりご確認願います。REACH 規則に関する各種事項は随時改訂される可能性がありますので、常に最新情報を入手されるようご注意ください。

以 上

表ー 1：本宣言書の対象型格リスト

FeRAM (1)			
I/F	Size	Part Number (Shipping form: Tube or Tray)	Part Number (Shipping form: Tape)
SPI	16kb	MB85RS16PNF-G-JNE1 MB85RS16PNF-G-AME2 MB85RS16NPNF-G-JNE1 MB85RS16NPNF-G-AME2	MB85RS16PNF-G-JNERE1 MB85RS16PNF-G-AMERE2 MB85RS16NPNF-G-JNERE1 MB85RS16NPNF-G-AMERE2 MB85RS16NPN-G-AMEWE1
	64kb	MB85RS64PNF-G-JNE1 MB85RS64PNF-G-AME2 MB85RS64TPNF-G-JNE2 MB85RS64TPNF-G-AME2 MB85RS64TUPNF-G-JNE2 MB85RS64VPNF-G-JNE1 MB85RS64VPNF-G-AME2 MB85RS64VYPNF-GS-BCE1 MB85RS64VYPNF-GS-AWE2 MB85RS64VYPNF-G-BCE1 MB85RS64VYPNF-G-AWE2	MB85RS64PNF-G-JNERE1 MB85RS64PNF-G-AMERE2 MB85RS64TPNF-G-JNERE2 MB85RS64TPNF-G-AMERE2 MB85RS64TPN-G-AMEWE1 MB85RS64TUPNF-G-JNERE2 MB85RS64TUPN-G-AMEWE1 MB85RS64VPNF-G-JNERE1 MB85RS64VPNF-G-AMERE2 MB85RS64VYPNF-GS-BCERE1 MB85RS64VYPNF-GS-AWERE2 MB85RS64VYPNF-G-BCERE1 MB85RS64VYPNF-G-AWERE2 MB85RS64VYPN-G-AMEWE1
	128kb	MB85RS128APNF-G-JNE1 MB85RS128BPNF-G-JNE1 MB85RS128BPNF-G-AME2 MB85RS128TYPNF-GS-BCE1 MB85RS128TYPNF-G-BCE1	MB85RS128APNF-G-JNERE1 MB85RS128BPNF-G-JNERE1 MB85RS128BPNF-G-AMERE2 MB85RS128TYPNF-GS-BCERE1 MB85RS128TYPNF-G-BCERE1
	256kb	MB85RS256APNF-G-JNE1 MB85RS256BPNF-G-JNE1 MB85RS256BPNF-G-AME2 MB85RS256TYPNF-GS-BCE1 MB85RS256TYPNF-GS-AWE2 MB85RS256TYPNF-G-BCE1 MB85RS256TYPNF-G-AWE2 MB85RS256TYAPNF-GS-BCE1 MB85RS256TYAPN-GS-AWE1 MB85RS256TYAPNF-G-BCE1 MB85RS256TYAPN-G-AWE1 MB85RS256LYAPNF-GS-BCE1 MB85RS256LYAPN-GS-AWE1 MB85RS256LYAPNF-G-BCE1 MB85RS256LYAPN-G-AWE1	MB85RS256APNF-G-JNERE1 MB85RS256BPNF-G-JNERE1 MB85RS256BPNF-G-AMERE2 MB85RS256TYPNF-GS-BCERE1 MB85RS256TYPNF-GS-AWERE2 MB85RS256TYPNF-G-BCERE1 MB85RS256TYPNF-G-AWERE2 MB85RS256TYAPNF-GSBCERE1 MB85RS256TYAPN-GS-AWEWE1 MB85RS256TYAPNF-G-BCERE1 MB85RS256TYAPN-G-AWEWE1 MB85RS256LYAPNF-GSBCERE1 MB85RS256LYAPN-GS-AWEWE1 MB85RS256LYAPNF-G-BCERE1 MB85RS256LYAPN-G-AWEWE1
	512kb	MB85RS512TPNF-G-JNE1 MB85RS512TPNF-G-AME2 MB85RS512TPNF-G-AWE2 MB85RS512TYPNF-GS-BCE1 MB85RS512TYPN-GS-AWE1 MB85RS512TYPNF-G-BCE1 MB85RS512TYPN-G-AWE1 MB85RS512LYPNF-GS-BCE1 MB85RS512LYPN-GS-AWE1 MB85RS512LYPNF-G-BCE1 MB85RS512LYPN-G-AWE1	MB85RS512TPNF-G-JNERE1 MB85RS512TPNF-G-AMERE2 MB85RS512TPNF-G-AWERE2 MB85RS512TYPNF-GS-BCERE1 MB85RS512TYPN-GS-AWEWE1 MB85RS512TYPNF-G-BCERE1 MB85RS512TYPN-G-AWEWE1 MB85RS512LYPNF-GS-BCERE1 MB85RS512LYPN-GS-AWEWE1 MB85RS512LYPNF-G-BCERE1 MB85RS512LYPN-G-AWEWE1

FeRAM (2)			
I/F	Size	Part Number (Shipping form: Tube or Tray)	Part Number (Shipping form: Tape)
SPI	1Mb	MB85RS1MTPNF-G-JNE1 MB85RS1MTPNF-G-AME2 MB85RS1MTPNF-G-AWE2	MB85RS1MTPNF-G-JNERE1 MB85RS1MTPNF-G-AMERE2 MB85RS1MTPNF-G-AWERE2 MB85RS1MTPW-G-APEWE1 MB85RS1MTPN-G-AWEWE1
		MS85RS1MTYPNF-GS-BDE1 MS85RS1MTYPNF-GS-AWE1 MS85RS1MLYPNF-GS-BDE1 MS85RS1MLYPNF-GS-AWE1 MS85RC1MTYPNF-GS-BDE1 MS85RC1MTYPNF-GS-AWE1 MS85RC1MLYPNF-GS-BDE1 MS85RC1MLYPNF-GS-AWE1 MS85RS1MTYPNF-G-BDE1 MS85RS1MTYPNF-G-AWE1 MS85RS1MLYPNF-G-BDE1 MS85RS1MLYPNF-G-AWE1 MS85RC1MTYPNF-G-BDE1 MS85RC1MTYPNF-G-AWE1 MS85RC1MLYPNF-G-BDE1 MS85RC1MLYPNF-G-AWE1	MS85RS1MTYPNF-GS-BDERE1 MS85RS1MTYPN-GS-AWEWE1 MS85RS1MLYPNF-GS-BDERE1 MS85RS1MLYPN-GS-AWEWE1 MS85RC1MTYPNF-GS-BDERE1 MS85RC1MTYPN-GS-AWEWE1 MS85RC1MLYPNF-GS-BDERE1 MS85RC1MLYPN-GS-AWEWE1 MS85RS1MTYPNF-G-BDERE1 MS85RS1MTYPN-G-AWEWE1 MS85RS1MLYPNF-G-BDERE1 MS85RS1MLYPN-G-AWEWE1 MS85RC1MTYPNF-G-BDERE1 MS85RC1MTYPN-G-AWEWE1 MS85RC1MLYPNF-G-BDERE1 MS85RC1MLYPN-G-AWEWE1
		MB85RS2MTAPNF-G-BDE1 MB85RS2MTAPNF-G-AWE2 MB85RS2MTAPF-G-BCE1 MB85RS2MTAPH-G-JNE2 MB85RS2MTYPNF-GS-AWE2 MB85RS2MTYPNF-G-AWE2 MB85RS2MLYPNF-GS-AWE2 MB85RS2MLYPNF-G-AWE2	MB85RS2MTAPNF-G-BDERE1 MB85RS2MTAPNF-G-AWERE2 MB85RS2MTAPF-G-BCERE1 MB85RS2MTYPNF-GS-AWERE2 MB85RS2MTYPN-GS-AWEWE1 MB85RS2MTYPNF-G-AWERE2 MB85RS2MTYPN-G-AWEWE1 MB85RS2MLYPNF-GS-AWERE2 MB85RS2MLYPN-GS-AWEWE1 MB85RS2MLYPNF-G-AWERE2 MB85RS2MLYPN-G-AWEWE1
		MB85RS4MTPF-G-BCE1 MB85RS4MTYPF-G-BCE1 MB85RS4MLYPF-G-BCE1	MB85RS4MTPF-G-BCERE1 MB85RS4MTYPN-GS-AWEWE1 MB85RS4MTYPF-G-BCERE1 MB85RS4MTYPN-G-AWEWE1 MB85RS4MLYPN-GS-AWEWE1 MB85RS4MLYPF-G-BCERE1 MB85RS4MLYPN-G-AWEWE1
I2C	4kb	MB85RC04PNF-G-JNE1 MB85RC04PNF-G-AME2 MB85RC04VPNF-G-JNE1 MB85RC04VPNF-G-AME2	MB85RC04PNF-G-JNERE1 MB85RC04PNF-G-AMERE2 MB85RC04VPNF-G-JNERE1 MB85RC04VPNF-G-AMERE2
	16kb	MB85RC16PNF-G-JNE1 MB85RC16SPNF-G-JNE1 MB85RC16SPNF-G-AME2 MB85RC16VPNF-G-JNN1E1 MB85RC16VPNF-G-AME2 MB85RC16VPNF-G-AWE2	MB85RC16PNF-G-JNERE1 MB85RC16SPNF-G-JNERE1 MB85RC16SPNF-G-AMERE2 MB85RC16PN-G-AMERE1 MB85RC16VPNF-G-JNN1ERE1 MB85RC16VPNF-G-AMERE2 MB85RC16VPNF-G-AWERE2

FeRAM (3)			
I/F	Size	Part Number (Shipping form: Tube or Tray)	Part Number (Shipping form: Tape)
I2C	64kb	MB85RC64PNF-G-JNE1 MB85RC64APNF-G-JNE1 MB85RC64APNF-G-AME2 MB85RC64TAPNF-G-BDE1 MB85RC64TAPNF-G-AWE2 MB85RC64TAPNF-G-JNE2 MB85RC64VPNF-G-JNE1 MB85RC64VPNF-G-AME2	MB85RC64PNF-G-JNERE1 MB85RC64APNF-G-JNERE1 MB85RC64APNF-G-AMERE2 MB85RC64TAPNF-G-BDERE1 MB85RC64TAPNF-G-AWERE2 MB85RC64TAPNF-G-JNERE2 MB85RC64TAPN-G-AMEWE1 MB85RC64VPNF-G-JNERE1 MB85RC64VPNF-G-AMERE2
	128kb	MB85RC128APNF-G-JNE1 MB85RC128APNF-G-AME2	MB85RC128APNF-G-JNERE1 MB85RC128APNF-G-AMERE2
	256kb	MB85RC256VPNF-G-JNE1 MB85RC256VPNF-G-AME2 MB85RC256VPF-G-BCE1 MB85RC256VNPf-G-AME2 MB85RC256TYPNF-GS-BCE1 MB85RC256TYPN-GS-AWE1 MB85RC256TYPNF-G-BCE1 MB85RC256TYPN-G-AWE1 MB85RC256LYPNF-GS-BCE1 MB85RC256LYPN-GS-AWE1 MB85RC256LYPNF-G-BCE1 MB85RC256LYPN-G-AWE1	MB85RC256VPNF-G-JNERE1 MB85RC256VPNF-G-AMERE2 MB85RC256VPF-G-BCERE1 MB85RC256VNPf-G-AMERE2 MB85RC256TYPNF-GS-BCERE1 MB85RC256TYPN-GS-AWEWE1 MB85RC256TYPNF-G-BCERE1 MB85RC256TYPN-G-AWEWE1 MB85RC256LYPNF-GS-BCERE1 MB85RC256LYPN-GS-AWEWE1 MB85RC256LYPNF-G-BCERE1 MB85RC256LYPN-G-AWEWE1
	512kb	MB85RC512TPNF-G-JNE1 MB85RC512TPNF-G-AME2 MB85RC512TYPNF-GS-BCE1 MB85RC512TYPN-GS-AWE1 MB85RC512TYPNF-G-BCE1 MB85RC512TYPN-G-AWE1 MB85RC512LYPNF-GS-BCE1 MB85RC512LYPN-GS-AWE1 MB85RC512LYPNF-G-BCE1 MB85RC512LYPN-G-AWE1	MB85RC512TPNF-G-JNERE1 MB85RC512TPNF-G-AMERE2 MB85RC512TYPNF-GS-BCERE1 MB85RC512TYPN-GS-AWEWE1 MB85RC512TYPNF-G-BCERE1 MB85RC512TYPN-G-AWEWE1 MB85RC512LYPNF-GS-BCERE1 MB85RC512LYPN-GS-AWEWE1 MB85RC512LYPNF-G-BCERE1 MB85RC512LYPN-G-AWEWE1
	1Mb	MB85RC1MTPNF-G-JNE1 MB85RC1MTPNF-G-AME2	MB85RC1MTPNF-G-JNERE1 MB85RC1MTPNF-G-AMERE2
Dual & Quad SPI	16kb 4Mb 8Mb	 MB85RQ4MLPF-G-BCE1 MB85RQ8MLXPF-G-BCE1 MB85RQ8MXPF-G-BCE1	MB85RD16LXPN-G-AMEWE1 MB85RDP16LXPN-G-AMEWE1 MB85RQ4MLPF-G-BCERE1 MB85RQ8MLXPF-G-BCERE1 MB85RQ8MXPF-G-BCERE1
Parallel	256kb~8Mb	MB85R256FFCN-G-BNDE1 MB85R1001ANC-GE1 MB85R1002ANC-GE1 MB85R4001ANC-GE1 MB85R4002ANC-GE1 MB85R4M2TFN-G-JAE2 MS85R4M1TAFN-G-JAE2 MS85R4M2TAFN-G-JAE2 MB85R8M1TABGL-G-JAE1 MB85R8M1TAFN-G-JAE2 MB85R8M2TABGL-G-JAE1 MB85R8M2TAFN-G-JAE2	

ReRAM		
MB85AS8MTPW-G-KBAERE1 MB85AS8MTPW-G-KBBERE1 MB85AS8MTPW-G-KBCERE1 MB85AS12MTPW-GAERE1		
RFID		
MB89R119B1-DIAP15-JN	MB89R118C1-DIAP15	MB89R112A1-DIAP15-JN
MB89R119B1-DIAP15-JNP1	MB89R118C1-DIAP15-P1	MB89R112A1-DIAP15-JNP1
MB89R119B1-WF	MB89R118C2-DIAP15	MB89R112A2-DIAP15-JN
MB89R119B2-DIAP15-JN	MB89R118C2-DIAP15-P1	MB89R112A2-DIAP15-JNP1
MB89R119B2-DIAP15-JNP1	MB97R8050-DIAP15	MB97R8110-WF
	MB97R8050-WF	

表－1 終わり