

## Product Change Notification

Product Group: SF/Fri Apr 26, 2024/PCN-SF-394-2024-REV-0



# SFERNICE RTO/DTO/D2TO product families overglaze upgrade to lead-free version

For further information, please contact your regional Vishay office.

#### **CONTACT INFORMATION**

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Fax:	Fax:	Fax:
-	-	-

Description of Change: Overglaze upgrade to lead-free version

Reason for Change: We are pleased to announce that we are upgrading the overglaze of our resistors to a lead-free variant. This improvement aligns with our commitment to environmental responsibility and product safety. By transitioning to lead-free overglass, we are reducing the environmental impact associated with traditional lead-based materials. This upgrade reflects our dedication to providing high-quality, sustainable solutions to meet the evolving needs of our customers while contributing positively to the environment.

**Expected Influence on Quality/Reliability/Performance:** Enhanced environmental friendliness without any compromise on the quality, reliability, and performance of the component.

Part Numbers/Series/Families Affected: RTO\*, DTO\*, D2TO\*,

Vishay Brand(S): Vishay Sfernice

Time Schedule:

Start Shipment Date: Wed Jul 31, 2024

Sample Availability: 07/31/2024

Product Identification: RTO\*, DTO\*, D2TO\*

Qualification Data: The validation of D2TO's qualification report extends to RTO as well

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Fri May 31, 2024 or as specified by contract.

 $\textbf{Issued By:} \ Thomas \ Roure, thomas.roure@vishay.com$ 



### **Part Submission Warrant**

Part Name		Customer Part Number											
Shown on Drawing No.					Organizatio	n Part#	art# D2TO, all references						
Engineering C	hange Level					Dated							
Additional Eng	gineering Change	s <mark>NA</mark>				Dated	NA						
Safety and/or	Government Reg	gulation Yes	✓ No Pur	chase Or	rder No. <mark>NA</mark>			Weig	jht (kg)				
Checking Aid	No. NA	С	hecking Aid Engineerii	ng Chang	ge Level <mark>NA</mark>				Dated	NA			
ORGANIZATIOI	MANUFACTUR	RING INFORMATION			CUSTOMER SU	BMITTA	L INFORMATIO	DN	-				
VISHAY ELEC	TRONIC spol.	s r.o.											
Organization I	Name & Supplier/	Vendor Code			Customer Nar	ne/Divisi	on						
Kasárenská 1	143												
Street Addres	S				Buyer/Buyer Code								
Prachatice		38301	Czech Republic										
City	Region	Postal Code	Country		Application								
MATERIALS RE								n/a					
Has customer	•	nces of Concern inform	•		Yes	<b>√</b> [	No						
	`	Submitted by IMDS or o	ther customer format.										
Are polymeric	parts identified w	vith appropriate ISO ma	rking codes?		Yes	\[\sigma\]	No.	n/a					
REASON FOR S	SUBMISSION (C	heck at least one)											
Initial Subm				[	Change to Optional Construction or Material								
Engineering		ant Definishment or	additional	l I	Supplier or Ma		_						
1= -	inster, Replacement of Discrepancy	ent, Refurbishment, or a	additional	] [	☐ Change in Part Processing ☐ Parts Produced at Additional Location								
I=	ctive > than 1 year	ar		[	✓ Other - please specify below								
REQUESTED S	UBMISSION DO	CUMENTS			Qualification of n	ew over	glaze material (le	ead free)					
Certificate	of compliance wit	th the ROHS 2011/65/U	IE directive		Design Appro	oval							
IMDS regist					Process Flow	Chart							
I =	ial conformity				Product FME								
Functional Dimensional					☐ Process FME	Д							
Packaging i	•				Control Plan Process Capability								
Appearance	e Report			j	Test Equipm	•	bility (R&R)						
SUBMISSION R													
The results fo	_	_	/ material and function	_	appearar		_	cical process	package	e			
		and specification requi	rements:	∐ NO	(If "NO"	- Explana	ation Required)						
DECLARATION I hereby affirm the		presented by this warrar	nt are representative of	our parts v	which were made I	ov a proc	ess that meets all	I Production	Part				
·		lence of such compliance		-									
EXPLANATIC	N / COMMENTS	:											
ls each Custome	er Tool properly to	agged and numbered?	☐ Yes		No 🗸 n/a								
Organization Au	thorized Signatur	e						Date 23	3/04/202	4			
Print Name	Benjamin MC	DLINS	Pł	none No.	+33(0)4 93 3	7 29 85	<del>,</del>	Fax No.					
Title	Quality Engir	neer		E-mail	benjamin.mol	ins@vi	shay.com	_					
Quality review:	D 146	N. INIO 20/04/0004			ring review:								
Signature + Date	Signature + Date B. MOLINS 23/04/2024 Signature + Date												
	FOR CUSTOMER USE ONLY (IF APPLICABLE)												
Part Warrant Dis		pproved Rejec	cted Other										
Customer Signa	ture							Date					
Print Name				Custo	mer Tracking Nui	mber (op	tional)						
				_		_		_	_	_			



### **Part Submission Warrant**

Part Name		Customer Part Number											
Shown on Drawing No.					Organizatio	n Part#	art# <mark>DTO, all references</mark>						
Engineering C	Change Level					Dated							
Additional Eng	gineering Change	s <mark>NA</mark>				Dated	NA						
Safety and/or	Government Reg	gulation Yes	☑ No Pur	chase Or	der No. <mark>NA</mark>				Weight (kg)				
Checking Aid	No. NA	(	Checking Aid Engineerii	ng Chang	je Level <mark>NA</mark>				Dated	NA			
ORGANIZATIOI	MANUFACTUR	RING INFORMATION			CUSTOMER SU	BMITTA	L INFORMATI	ON					
VISHAY ELEC	CTRONIC spol.	s r.o.											
Organization I	Name & Supplier	Vendor Code			Customer Nan	ne/Divisi	on						
Kasárenská 1	143												
Street Addres	S				Buyer/Buyer Code								
Prachatice		38301	Czech Republic										
City	Region	Postal Code	Country		Application								
MATERIALS RE								☐ n/a					
Has customer	•		mation been reported?		∐ Yes	<b>√</b> [	No						
	•	Submitted by IMDS or	other customer format:										
Are polymeric	parts identified w	vith appropriate ISO m	arking codes?		Yes	\[\sigma\]	 Vo	n/a					
REASON FOR S	SUBMISSION (C	heck at least one)							-				
Initial Subm				[	Change to Optional Construction or Material								
Engineering		ant Dafurhishmant ar	r additional		Supplier or Ma		_						
	of Discrepancy	ent, Refurbishment, or	additional	[	☐ Change in Part Processing ☐ Parts Produced at Additional Location								
	ctive > than 1 ye	ar		Ī	✓ Other - please specify below								
REQUESTED S	UBMISSION DO	CUMENTS			Qualification of n	ew over	glaze material (	lead fre	e)				
Certificate	of compliance wit	th the ROHS 2011/65/	UE directive	[	Design Appro	oval							
IMDS regist				[	Process Flow								
Raw Mater Functional	ial conformity			[	Product FME								
Dimensiona				[	Process FMEA Control Plan								
1 =	instructions			[	Process Capability								
Appearance	e Report			[	Test Equipmo	ent Capa	bility (R&R)						
SUBMISSION R		na  measurements	material and function	nal toete	- appearan	nco critor	ia 🗆 ctatio	ctical pr	ococc packac	10			
The results fo	. —	and specification requ		NO	☐ appearar		ation Required)		ocess packa <u>c</u>	je			
DECLARATION		and opcomodation road	all officials.		(11.110	Explain	adon reduirou)	•					
		presented by this warra	ant are representative of	our parts v	which were made t	oy a proc	ess that meets a	all Produ	ction Part				
I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.													
EXPLANATIC	N / COMMENTS	:											
Is each Custome	er Tool properly to	agged and numbered?	Yes	1	No ☑ n/a								
Organization Au	thorized Signatur	e						Da	te <mark>23/04/202</mark>	24			
Print Name	Benjamin MC	DLINS	Pł	one No.	+33(0)4 93 3	7 29 85	,	Fax N	o.				
Title	Quality Engir	neer		E-mail	benjamin.mol	ins@vi	shay.com						
Quality review: Signature + Date	e B. MC	DLINS 23/04/2024		Engineer Signatur	ring review: e + Date								
FOR CUSTOMER USE ONLY (IF APPLICABLE)													
Part Warrant Dis	sposition: Ap	proved Rej	ected										
Customer Signa	ture							Date					
Print Name				Custo	mer Tracking Nur	mber (op	tional)						
_	_	_		_		_	_	_		_			



### **Part Submission Warrant**

Part Name RTO, all references					Customer Part Number								
Shown on Drawing No.					Organization Part # RTO, all references								
Engineering C		Dated											
Additional Eng	ineering Changes	NA				Dated	NA						
Safety and/or	Government Regu	ulation Yes	✓ No Pur	chase O	rder No. NA				Weight (kg)				
Checking Aid I	•		— hecking Aid Engineerii	ng Chang	ne Level NA				Dated	NA			
			ricetting / tid Engineerin	ig onang					Baloa	14/1			
	DRGANIZATION MANUFACTURING INFORMATION CUSTOMER SUBMITTAL INFORMATION												
VISHAY ELECTRONIC spol. s r.o.  Organization Name & Supplier/Vendor Code  Customer Name/Division													
Customer Name & Supplier/vendor Code  Kasárenská 1143													
Street Address					Buyer/Buyer C	Code							
Prachatice		38301	Czech Republic										
City	Region	Postal Code	Country		Application								
MATERIALS RE			,										
		nces of Concern inform	ation been reported?		Yes Vo n/a								
	S	ubmitted by IMDS or o	ther customer format:										
		ith appropriate ISO ma	rking codes?		Yes	✓ N	No	n/a	ı				
I —	SUBMISSION (Ch	ieck at least one)		İ	Change to Op	tional Co	netruction or	Matorial					
Initial Submi					= -								
		nt, Refurbishment, or a	additional		Supplier or Material Source Change Change in Part Processing								
Correction o	f Discrepancy				Parts Produce	Parts Produced at Additional Location							
Tooling Inac	tive > than 1 yea	r			✓ Other - please	e specify	below						
REQUESTED SI	UBMISSION DOC	CUMENTS			Qualification of r	iew overg	glaze materia	l (lead free	e)				
		n the ROHS 2011/65/U	IE directive		Design Appro	oval							
IMDS regist					Process Flow								
Raw Materi	al conformity				Product FME								
Dimensiona					☐ Process FME	А							
Packaging in	Control Plan Process Capability												
Appearance	Report				Test Equipm	,	bility (R&R)						
SUBMISSION R	ESULTS	_	_										
The results for			✓ material and functio	_		nce criteri	_		ocess packag	je			
	meet all drawing a	and specification requi	rements:  Yes	∐ №	(If "NO"	- Explana	ation Require	d)					
DECLARATION	not the complex ran	presented by this warrar	at are representative of	our parta	which were made	hu a nraac	and that most	all Dradu	otion Dort				
		•	·			• .							
I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.  EXPLANATION / COMMENTS:													
la aaab Cuatama	or Tool properly to	and and numbered?	☐ Yes		No ☑ n/a								
l .		gged and numbered?			NO ⊡ II/a			Б.	00/04/000				
ľ	horized Signature							Da	23/04/202	24			
Print Name	Benjamin MO	LINS	Pr		+33(0)4 93 3			Fax N	0.				
	Quality Engin	eer			benjamin.mo	lins@vi	shay.com						
	Quality review: Signature + Date  B. MOLINS 23/04/2024  Engineering review: Signature + Date												
FOR CUSTOMER USE ONLY (IF APPLICABLE)													
	Part Warrant Disposition: Approved Rejected Other Other												
Customer Signat	ture							Date					
Print Name				Custo	mer Tracking Nu	mber (op	tional)						