

Product Change Notification

Product Group: TC/Mon Jan 30, 2023/PCN-TC-001-2023-REV-0



TP8, R case Construction Modification

For further information, please contact your regional Vishay office.

CONTACT INFORMATION

Americas	Europe	Asia
David Bellomy	Thomas Poessnecker	Boon Hooi Tan
7557 Rambler Road, Suite 575	DrFelix-Zandman-Platz 1	37?A Tampines Street ?92?, #?07?-?00
-	-	-
Dallas TX United States 75231-4142	Selb Germany D-95100	Singapore Singapore ?528886
Phone: (254)479-0010	Phone: + 49 9287 712 595	Phone: +?65?-?6780?-?7759
Fax: +1 214-363-9444	Fax: + 49 9287 712 274	Fax: +?65?-?6780?-?7749
David.Bellomy@Vishay.com	Thomas.Poessnecker@Vishay.com	Boonhooi.Tan@Vishay.com

Description of Change: Modify FR4 substrate structure by adding silver plated copper clad on its top surface.

Classification of Change: Technology improvement.

Expected Influence on Quality/Reliability/Performance: This change does not affect Fit, Form and Function of subject product.

Part Numbers/Series/Families Affected: TP8R106K016C, TP8R106M016C,

Vishay Brand(S): Vishay Sprague

Time Schedule:

Start Shipment Date: Thu Apr 20, 2023

Sample Availability: Upon Request

Product Identification: Per product lot number and/or date code.

Qualification Data: Upon Request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Wed Mar 1, 2023 or as specified by contract.

Issued By: Ilia Litvachuk, ilia.litvachuk@vishay.com



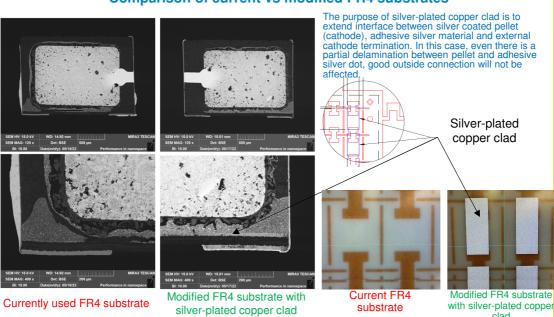
VISHAY TA CAPACITORS DIVISION

TP8R106M016C Construction Modification

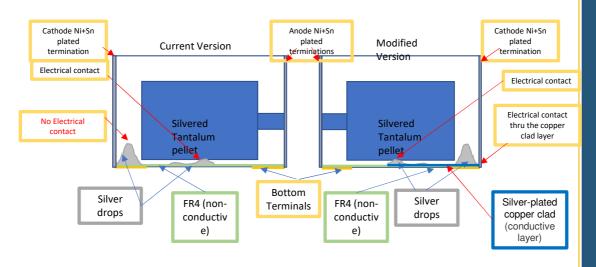


clad





Modified FR4 substrate with silver-plated copper clad





Family	Casa	Dating	Lot #	VI	El. test	QC, 96 pcs	
	Case	Rating	Lot #	Yield, %	Yield, % Yield, %		
TP8	R	10-16	13615982	97.1%	90.7%	Pass	

Electrical test and QC ESR limits for engineering lot 13615982 (Modified FR4 substrate with silver-plated copper clad):

- 1. ESR sort (test) limit: 3.5 Ohm.
- 2. QC test limit: 8 Ohm.

Electrical test and QC ESR limits for current production lots (ECN 2022-2293):

- 1. ESR sort (test) limit for production lots is dynamic, or statistical limit (Average+3Sigma) based on 1st el. test.
- 2. QC limit for production lots is 4 Ohm.

Samples from lot 13615982 were submitted to Reliability testing (reference: test # 22.08.132), all tests completed without failures, see summary report on slide 5.



	VISHAY			TEST	REPORT									- r	0.01
		Reason for test: Test program specification:		EEN (modified LF)									Division:	Ta-cap	
				STC-XXXX-28.2, Appendix 4; AEC-Q200									G.Koshkin		
		Receiving date: 22-Aug-22 Start date: 24-Aug-22 Completion: 24-Aug-22							ag-22	1					
		PRODUCT DATA													
				Part # Lot # 06M016R2T 13615982		Data Code N/A									
		11.0									-	_			
Test Group/ Subgroup			a 9	dno	Lot#	E P			lest limi	ts		Fallures		-	
	Tost Name	Test conditions / Test method	Grou	9			DCL, LOVE OF N				11572	7	-	e / Fall	Notes
		reference	Test Group	Test			μA, max	ΔC/C,%	DF, %, max	ESR, Ω, max	Z, Ω, max	Allowed	Actual	Pass	
	LT +125°C 7.0 V 1000h	AEC-Q200	1		ETAT	77	16	20	8	10	N/A	0	0	Pass	
	Humidity test 85°C/85%RH/10.0V/1000h	A2C00052910AAA Rev E	2	1	13615982	77	. 16	20	24	30	N/A	0	0	Pass	
	High temperature exposure 1000h	AEC-Q200	3			77	1.6	20	8	10	N/A	0	0	Pass	98
	Temperature cycling	AEC-Q200	4			77	1.6	20	8	10	N/A	0	0	Pass	
	Vibration / Mechanical Shock	AEC-Q200	5			30	1.6	20	8	N/A	N/A	0	0	Pass	
	Resistance to soldering heat	AEC-Q200	6			30	1.6	20	8	N/A	N/A	0	0	Pass	
	Terminal strength	AEC-Q200-008	7			30	N/A	N/A	N/A	N/A	N/A	0	0	Pass	N. S.
	Note: Based on data of the test repor	#22 06 010													
	Result: Pass	1/45/98/00/PA					15	00	1						
	Result: Pass	Test technician :	NN/K	T			17	160	1						
			-	7	ntials 7/100		24	signature/							
		Lab manager or designee:	08		signature	_	24.0	1.08 RIBO		18					