



Extend use of C153 Dielectric Material for X7R MLCC

DESCRIPTION OF CHANGE: Extend use of C153 (Vishay internal designations) dielectric material currently qualified and successfully and replace C297 (Vishay internal designations) for below listed values

CLASSIFICATION OF CHANGE: Change of dielectric material

REASON FOR CHANGE: Improved reliability of products:

- C153 is less prone to thermal shock stress
- C153 is less sensitive to termination deficiencies
- C153 has a better level of reliability compared to C297

EXPECTED INFLUENCE ON QUALITY/RELIABILITY/PERFORMANCE:

- No change in electrical parameters
- No influence expected in applications
- Increased dielectric constant of C153 allows parts to be manufactured with thicker dielectric layers, producing a more robust part than comparable part manufactured with C297

PRODUCT CATEGORY: Capacitors

PART NUMBERS/SERIES/FAMILIES AFFECTED:

Series	Datasheet link
VJ Commercial Series	http://www.vishay.com/doc?45199
VJ Non-Magnetic Series for Epoxy Bonding :	http://www.vishay.com/doc?45128
VJ Non-Magnetic Series for IR Reflow Soldering :	http://www.vishay.com/doc?45227

Size	PN	Capactiance Code	Voltage code	Process code
0603	VJ0603Y473	47nF (473)	16V (J)	"blank", "00", "01", "03", "14", "27", "42", "51", "53", "54", "64", "66", "1P", "2P", "3L", "3P", "4B", "4H", "A3"
	VJ0603Y473	47nF (473)	25V (X)	
	VJ0603Y563	56nF (563)	16V (J)	
	VJ0603Y563	56nF (563)	25V (X)	
0805	VJ0805Y184	180nF (184)	16V (J)	
	VJ0805Y184	180nF (184)	25V (X)	
	VJ0805Y224	220nF (224)	16V (J)	



VISHAY BRAND(s): Vishay Vitramon

TIME SCHEDULE: Start Shipment Date: December 1st, 2018

SAMPLE AVAILABILITY: 01.July 2018 upon availability

PRODUCT IDENTIFICATION: By date code

QUALIFICATION DATA: Available on request

This PCN is considered approved, without further notification, unless we receive specific customer concerns before November 30, 2018 or as specified by contract.

ISSUED BY: Vishay MLCC Engineering Mgr.

Dvir Zaigerman
4 Nahal Tzvi st.
Migdal HaEmek, 2304905
Israel
Tel.: +972-4-6447918

E-Mail : Dvir.Zaigerman@Vishay.com

Vishay MLCC QA Sr. Mgr.

Dmitry Kan
4 Nahal Tzvi st
Migdal HaEmek, 2304905
Israel
Tel: +972-4-6447853
Fax: +972-4-6441830

E-mail: Dmitry.Kan@Vishay.com

For further information, please contact your regional Vishay office.

CONTACT INFORMATION:

The Americas

Vishay Americas
One Greenwich Place
Shelton, CT 06484
USA
Phone: +1 402 563 6866
Fax : +1 402 563 6296
Email : Brian.Ward@Vishay.com

Europe

Vishay Electronic GmbH
Dr.-Felix-Zandman-Platz 1
95100 Selb
Germany
Phone : +49 9287 71-0
Fax : +49 9287 70 435
Email : Thomas.Waechter@Vishay.com

Asia

Vishay Intertechnology Asia Pte.Ltd.
37A Tampines Street 92, Keppel Building
Singapore 528886
Singapore
Phone : +65 6788 6668
Fax : +65 6788 0988
Email : Boonhooi.Tan@Vishay.com