





B 1. Proprietor (trade mark) 		PAGE 1 (of)		A 1. Serial No. CH-18-2002 CH-33-2002	A 2. Mailing/Fiche No. 2002-09	A 3. Date 02-07	A 4. User's Code C020403_06_05
C 1. Originator (full address) Mettler-Toledo GmbH Components Engineering & SIEMENS Fire & Security Prod. Components Engineering Nänikon/Männedorf, Switzerland		Company Report		A 5. Access No. -10009		Supersedes/Supplements A 6. Access No. 10009-2002 A 7. Date 2002-10	
		A 8.		D 1. Product Description X7R Multilayer Chip Capacitor, Ceramic 220nF / 50V / 1206			
C 3. Originator's report designation C020403_06_05 Language: English Date: 2002-10-15 This exact report is a <input type="checkbox"/> summary <input checked="" type="checkbox"/> full report		C 2. Classification (Supervision) User/Testhouse		D 2. Product Manufacturer -BCcomponents Vertriebs GmbH Steindamm 80 D-20099 Hamburg Germany Plant location (if known)			
C 4. Specifications used for the testing exact Test Procedure for SMD MLCC, 1993 (based on IEC 384-1/-8/-9/-10 / IEC 68-2-x) Web: www.igexact.org/erfa_elo/img_pdf/MLCC-chip.pdf		D 3. Manufacturer's type designation 1206B224K50BT		D 4. Production Status Series			
C 5. Purpose of test Qualification approval		D 5. Product Specification / QPL Reference e.g. IECQ / CECC Manufacturers data book: www.bccomponents.com/					
D 6. Information on the test(s). <ul style="list-style-type: none"> - Placement and reflow soldering on SMD test boards - Charakterisation @ 25°C (C, DF, Rins) - Temperature Cycles: 50 cycles between -55°C/125°C, 0.5h dwell time @each temperature - Life Test 1000h @ 125°C, VDC = 2 x Vnominal = 100V - Life Test 2000h @ 125°C, VDC = 2 x Vnominal = 100V - Climate Test after Temperature Cycling: 56d @ 40°C/93%r.H. VDC = Vnom. = 50V - Bending Test at 5s deflection 1mm and Climate Test: 56d @ 40°C/93%r.H. VDC = Vnom. = 50V - Technical Information on the product and outline sketch: see datasheet (enclosure of this report) 							
E 1. Information on the Test Procedure						Date (year,month)	
Quantity	Essential test ratings					manufact.	purchase.
70 (30) (30) (10)	Lot 1-3: Characterization Lot 1: Temp. cycling / Life Test / Final measurement Lot 2: Temp. cycling / Climate Test / Final measurement Lot 3: Bending Test / Climate Test / Final measurement					0143	0106
E 2. Test observations (more details overleaf). Verbal summary of report (facts only, no opinion). <ul style="list-style-type: none"> - The pre-measurements performed for the characterization show, that the electrical parameters are within the datasheet limits. - No failures were observed after the temperature cycling. - All parameters were within the specifications after 1000h Life Test - A significant decrease of the insulation resistance was observed for one capacitor after 2000h Life Test (1.58 kΩ). - A failure ocured for one capacitot after 56d Climate Test with a value of the insulation resistance down to 8.9 kΩ. 							
F 1. Communication with Product Manufacturer				Request for manufacturer's comment sent to <input checked="" type="checkbox"/> Manufacturer <input checked="" type="checkbox"/> Local Agent			
The manufacturer: <input type="checkbox"/> has not replied within the given time limit <input type="checkbox"/> has replied: 'No comments' <input type="checkbox"/> has made the comments below/on Page _____							
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G 1. Approved by originator 		Date 02-10	G 2. Released by proprietor 		Date 02-10	G 3. Released for circulation 	
						Date 02-10	