



Product specification – June 20, 2017 V.6



YAGEO Phícomp

Chip Resistor Surface Mount | AC | SERIES | 0201 to 2512

<u>SCOPE</u>

This specification describes AC0201 to AC2512 chip resistors with lead-free terminations made by thick film process.

APPLICATIONS

- All general purpose applications
- Car electronics, industrial application

FEATURES

- AEC-Q200 qualified
- Moisture sensitivity level: MSL I
- AC series soldering is compliant with J-STD-020D
- Halogen free epoxy
- RoHS compliant
 - Products with lead-free terminations meet RoHS requirements
 - Pb-glass contained in electrodes, resistor element and glass are exempted by RoHS
- Reduce environmentally hazardous waste
- High component and equipment reliability
- The resistors are 100% performed by automatic optical inspection prior to taping.

ORDERING INFORMATION - GLOBAL PART NUMBER

Part number is identified by the series name, size, tolerance, packaging type, temperature coefficient, taping reel and resistance value.

GLOBAL PART NUMBER

AC XXXX X X X XX XXXX L

(1) (2) (3) (4) (5) (6) (7)

(I) SIZE

0201/0402/0603/0805/1206/1210/1218/2010/2512

(2) TOLERANCE

 $D = \pm 0.5\%$

 $F = \pm 1\%$

 $J = \pm 5\%$ (for Jumper ordering, use code of J)

(3) PACKAGING TYPE

R = Paper taping reel

K = Embossed taping reel

(4) TEMPERATURE COEFFICIENT OF RESISTANCE

– = Base on spec

(5) TAPING REEL

07 = 7 inch dia. Reel	
13 = 13 inch dia. Reel	

10 = 10 inch dia. Reel 7W = 7 inch dia. Reel & 2 x standard power

(6) RESISTANCE VALUE

I Ω to 22 M Ω

There are 2~4 digits indicated the resistance value. Letter R/K/M is decimal point, no need to mention the last zero after R/K/M, e.g. IK2, not IK20.

Detailed coding rules of resistance are shown in the table of "Resistance rule of global part number".

(7) DEFAULT CODE

Letter L is the system default code for ordering only. ^(Note)

Resistance rule of global part					
Resistance coding rule	Example				
XRXX (1 to 9.76Ω)	R = Ω R5 = .5Ω 9R76 = 9.76Ω				
XXRX	10R = 10Ω				
(10 to 97.6Ω)	97R6 = 97.6Ω				
XXXR	100R = 100Ω				
(100 to 976Ω)	976R = 976Ω				
XKXX	IK = 1,000Ω				
(Ι to 9.76 K Ω)	9K76 = 9760Ω				
XMXX	$IM = I,000,000\Omega$				
(I to 9.76 MΩ)	9M76= 9,760,000Ω				
XXMX (10 MΩ)	10M = 10,000,000 Ω				

ORDERING EXAMPLE

The ordering code for an AC0402 chip resistor, value 100 K Ω with ±1% tolerance, supplied in 7-inch tape reel is: AC0402FR-07100KL.

NOTE

- All our R-Chip products are RoHS compliant and Halogen free. "LFP" of the internal 2D reel label states "Lead-Free Process".
- 2. On customized label, "LFP" or specific symbol can be printed.
- AC series with ±0.5% tolerance is also available. For further information, please contact sales.

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<u>MARKING</u> AC0201 / AC0402						
Fig. I	No marking					
AC0603 / AC0805 / AC1206 / J	AC1210 / AC2010 / AC2512					
Fig. 2 Value=10 KΩ	E-24 series: 3 digits, $\pm 5\%$ First two digits for significant figure and 3rd digit for number of zeros					
AC0603						
$Fig. 3 Value = 24 \ \Omega$	E-24 series: 3 digits, ±1% & ±0.5% One short bar under marking letter					
Fig. 4 Value = 12.4 K Ω	E-96 series: 3 digits, $\pm 1\%$ & $\pm 0.5\%$ First two digits for E-96 marking rule and 3rd letter for number of zeros					
AC0805 / AC1206 / AC1210 / J	AC2010 / AC2512					
Γig. 5 Value = 10 KΩ	Both E-24 and E-96 series: 4 digits, $\pm 1\% \& \pm 0.5\%$ First three digits for significant figure and 4th digit for number of zeros					
AC1218						
Fig. 6 Value = 10 KΩ	E-24 series: 3 digits, $\pm 5\%$ First two digits for significant figure and 3rd digit for number of zeros					
Γig. 7 Value = 10 KΩ	Both E-24 and E-96 series: 4 digits, $\pm 1\%$ & $\pm 0.5\%$ First three digits for significant figure and 4th digit for number of zeros					

ΝΟΤΕ

For further marking information, please refer to data sheet "Chip resistors marking". Marking of AC series is the same as RC series.

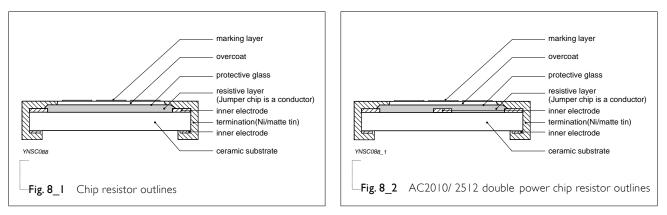


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CONSTRUCTION

The resistors are constructed on top of an automotive grade ceramic body. Internal metal electrodes are added at each end and connected by a resistive glaze. The resistive glaze is covered by a protective glass. The composition of the glaze is adjusted to give the approximately required resistance value and laser trimming of this resistive glaze achieves the value within tolerance. The whole element is covered by a protective overcoat. Size 0603 and bigger is marked with the resistance value on top. Finally, the two external terminations (Ni / matte tin) are added, as shown in Fig.8.

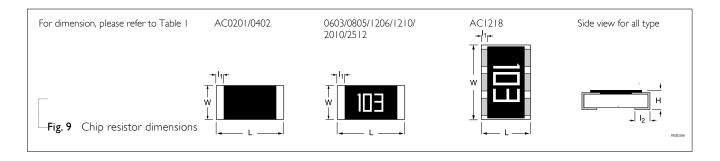
OUTLINES



DIMENSIONS

Table I For outlines, please refer to Fig. 9

ТҮРЕ	L (mm)	W (mm)	H (mm)	l⊤(mm)	l ₂ (mm)
AC0201	0.60±0.03	0.30±0.03	0.23±0.03	0.12±0.05	0.15±0.05
AC0402	1.00 ±0.05	0.50 ±0.05	0.32 ±0.05	0.20 ±0.10	0.25 ±0.10
AC0603	1.60 ±0.10	0.80 ±0.10	0.45 ±0.10	0.25 ±0.15	0.25 ±0.15
AC0805	2.00 ±0.10	1.25 ±0.10	0.50 ±0.10	0.35 ±0.20	0.35 ±0.20
AC1206	3.10 ±0.10	1.60 ±0.10	0.55 ±0.10	0.45 ±0.20	0.40 ±0.20
AC1210	3.10 ±0.10	2.60 ±0.15	0.55 ±0.10	0.45 ±0.15	0.50 ±0.20
AC1218	3.10 ±0.10	4.60 ±0.10	0.55 ±0.10	0.45 ±0.20	0.40 ±0.20
AC2010	5.00 ±0.10	2.50 ±0.15	0.55 ±0.10	0.55 ±0.15	0.50 ±0.20
AC2512	6.35 ±0.10	3.10 ±0.15	0.55 ±0.10	0.60 ±0.20	0.50 ±0.20





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ELECTRICAL CHARACTERISTICS

Table 2	2														
	_				CHARAC	TERISTICS									
ТҮРЕ	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria							
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current							
						$ \Omega \leq R \leq 0M\Omega $	-100/+350ppm°C	0.5A							
		−55 °C to				1% (E24/E96)	$10\Omega < R \le 10M$	Maximum							
AC0201	1/20 W	-55 °C	25V	50V	50V	$ \Omega \le R \le 0M\Omega $	±200ppm°C	Current							
		155 C				0.5% (E24/E96)		1.0A							
						$10\Omega \le R \le 1M\Omega$									
						Jumper<50m Ω									
						5% (E24)	$ \Omega \leq R \leq 0\Omega $	Rated Current							
	1/16 \A/						$I\Omega \le R \le 22M\Omega$	±200ppm°C	IA						
		/16 ₩ –55 °C to	50V	100V	100V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum							
	1/10 VV	155 ℃			1000 1000	$ \Omega \leq R \leq 0M\Omega $	±100ppm°C	Current							
						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	2A							
AC0402							±200ppm°C								
			50V	50V	50\/	50V							5% (E24)	$ \Omega \le R \le 0\Omega $	
	I/8W	–55 °C to					50V	50V	50V	50V	50V		100V 100V	$ \Omega \le R \le 0M\Omega $	±200 ppm°C
	1/0 • •	155 °C		100 v	1001	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$								
						$ \Omega \le R \le 0M\Omega $	±100 ppm°C								
						5% (E24)	$ \Omega \leq R \leq 0\Omega $	Rated Current							
						$ \Omega \le R \le 22M\Omega$	±200ppm°C	IA							
		- 55 °C to		1501	150) (0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum							
	1/10 W	155 ℃	75V	150V	150V	$ \Omega \leq R \leq 0M\Omega $	±100ppm°C	Current							
						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	2A							
AC0603							±200ppm°C								
-						5% (E24)	$ \Omega \leq R \leq 0\Omega $								
		- 55 °C to		. =		$ \Omega \le R \le 10M\Omega$	±200 ppm°C								
	1/5 W	155 ℃	75V	150V	150V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$								
						$ \Omega \le R \le 10M\Omega$	±100 ppm°C								

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					CHARAC	CTERISTICS																	
TYPE	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria															
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current															
						$ \Omega \le R \le 22 M\Omega$	±200ppm°C	2A															
	1/0.14/	- 55 °C to		2001	2001/	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum															
	1/8 W	155 ℃	150V	300V	300V	$ \Omega \le R \le 0M\Omega $	±100ppm°C	Current															
						Jumper < 50m Ω	$10M\Omega < R \le 22M\Omega$	5A															
AC0805							±200ppm°C																
						5% (E24)	$ \Omega \le R \le 0\Omega $																
	1/4 W	- 55 °C to	150V	300V	300V	$I\Omega \le R \le I0M\Omega$	±200 ppm°C																
	.,	155 °C	1001	5001	500,	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$																
						$ \Omega \leq R \leq 0M\Omega $	±100 ppm°C																
	1/4 W						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current														
				400V		$I\Omega \le R \le 22M\Omega$	±200ppm°C	2A															
		−55 °C to	200V		500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum															
		155 °C			V UUF	V UUF	VUUT	VUUT	VUUT	VUUT	5000	$ \Omega \leq R \leq 0M\Omega $	±100ppm°C	Current									
A C 1207						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A															
AC1206							±200ppm°C																
						5% (E24)	$ \Omega \le R \le 0\Omega $																
	1/2 W	- 55 °C to	200∨	200∨	200∨	2001/	2001/	200V	200∨	200V	400V	500V	$ \Omega \le R \le 0M\Omega $	±200 ppm°C									
		155 °C		100 4	1001	1001	100 V										100 1				0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	
						$ \Omega \le R \le 0M\Omega $	±100 ppm°C																
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current															
						$I\Omega \le R \le 22M\Omega$	±200ppm°C	2A															
	1/2 W	- 55 °C to	200V	500V	500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum															
	1/2 11	155 ℃	2001	5001	5001	$I\Omega \le R \le I0M\Omega$	±100ppm°C	Current															
AC1210						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A															
ACIZIO							±200ppm°C																
						5% (E24)	$ \Omega \le R \le 0\Omega $																
	IW	- 55 °C to	200V	500V	500V	$ \Omega \leq R \leq 0M\Omega $	±200 ppm°C																
		155 °C	2004	5004	5001	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$																
						$ \Omega \leq R \leq 0M\Omega $	±100 ppm°C																
-																							

					CHARAC	TERISTICS															
ТҮРЕ	POWER	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Temperature Coefficient	Jumper Criteria													
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current													
		− 55 °C to				$ \Omega \leq R \leq M\Omega $	±200ppm°C	6A													
	IW	−55 °C	200V	500V	500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 1M\Omega$	Maximum													
		155 C				$ \Omega \leq R \leq M\Omega $	±100ppm°C	Current													
AC1218						Jumper<50m Ω		10A													
						5% (E24)	$ \Omega \le R \le 0\Omega $														
	1.5W	- 55 °C to	200V	500V	500V	$ \Omega \leq R \leq M\Omega $	±200 ppm°C														
	1.3 V V	155 ℃	200 v	2004	2004	0.5%, 1% (E24/E96)	$ 0\Omega < R \le M\Omega $														
						$ \Omega \leq R \leq M\Omega $	±100 ppm°C														
			200V	500V		5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current													
		–55 °C to 3/4 ₩ 155 °C				$ \Omega \le R \le 22M\Omega$	±200ppm°C	2A													
	3/4 \ \ \ /				500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum													
					5007	$ \Omega \leq R \leq 0M\Omega $	±100ppm°C	Current													
A C 2010														Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A					
AC2010																					±200ppm°C
						5% (E24)	$ \Omega \le R \le 0\Omega $														
	1.25W	- 55 °C to	200V	500V	500V	500V	500V	500V	500V	500V	500V	500V	$ \Omega \leq R \leq 0M\Omega $	±200 ppm°C							
	1.23 V V	155 °C	200 v									2000	5000	2004	2007	2007	2007	2007	3007	2004	3000
						$ \Omega \le R \le 0M\Omega $	±100 ppm°C														
						5% (E24)	$ \Omega \le R \le 0\Omega $	Rated Current													
						$ \Omega \le R \le 22M\Omega$	±200ppm°C	2A													
	IW	- 55 °C to	200V	500V	500V	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$	Maximum													
	1 • •	155 °C	200 v	5000	5007	$ \Omega \leq R \leq 0M\Omega $	±100ppm°C	Current													
A C 25 L 2						Jumper<50m Ω	$10M\Omega < R \le 22M\Omega$	10A													
AC2512							±200ppm°C														
						5% (E24)	$ \Omega \le R \le 0\Omega $														
	2 W	- 55 °C to	200V	400V	500V	$ \Omega \le R \le 0M\Omega $	±200 ppm°C														
	2 * *	155 °C	200 V	100 4	5001	0.5%, 1% (E24/E96)	$10\Omega < R \le 10M\Omega$														
						$ \Omega \le R \le 0M\Omega $	±100 ppm°C														

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FOOTPRINT AND SOLDERING PROFILES

Recommended footprint and soldering profiles of AC-series is the same as RC-series. Please refer to data sheet "Chip resistors mounting".

PACKING STYLE AND PACKAGING QUANTITY

Table 3 Packing style and packaging quantity

PACKING STYLE	REEL DIMENSION	AC0201	AC0402	AC0603	AC0805	AC1206	AC1210	AC1218	AC2010	AC2512
Paper taping reel (R)	7" (178 mm)	10,000	10,000	5,000	5,000	5,000	5,000			
	10" (254 mm)	20,000	20,000	10,000	10,000	10,000	10,000			
	13" (330 mm)	50,000	50,000	20,000	20,000	20,000	20,000			
Embossed taping reel (K)	7" (178 mm)							4,000	4,000	4,000

NOTE

I. For paper/embossed tape and reel specifications/dimensions, please refer to data sheet "Chip resistors packing".

FUNCTIONAL DESCRIPTION

OPERATING TEMPERATURE RANGE

Range: -55 °C to +155 °C

POWER RATING

Each type rated power at 70 °C: AC0201=1/20W (0.05W) AC0402=1/16W (0.0625W); 1/8W (0.125W) AC0603=1/10W (0.1W); 1/5W (0.2W) AC0805=1/8W (0.125W); 1/4 W(0.25 W) AC1206=1/4W (0.25W); 1/2 W (0.5 W) AC1210=1/2W (0.5W); 1/2 W (0.5 W) AC1218=1W; 1.5W AC2010=3/4W (0.75W); 1.25W AC2512=1 W; 2W

RATED VOLTAGE

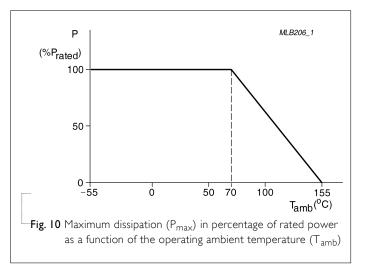
The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

 $V = \sqrt{(P \times R)}$

Or Maximum working voltage whichever is less

Where

V = Continuous rated DC or AC (rms) working voltage (V) P = Rated power (W) R = Resistance value (Ω)



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TESTS AND REQUIREMENTS

Table 4 Test condition, procedure and requirements

TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
High Temperature Exposure	AEC-Q200 Test 3 MIL-STD-202 Method 108	1,000 hours at T _A = 155 °C, unpowered	\pm (1.0%+0.05 Ω) for D/F tol ±(2.0%+0.05 Ω) for J tol <50 m Ω for Jumper
Moisture Resistance	AEC-Q200 Test 6 MIL-STD-202 Method 106	Each temperature / humidity cycle is defined at 8 hours (method 106F), 3 cycles / 24 hours for 10d. with 25 °C / 65 °C 95% R.H, without steps 7a & 7b, unpowered	±(0.5%+0.05 Ω) for D/F tol ±(2.0%+0.05 Ω) for J tol <100 m Ω for Jumper
Biased Humidity	AEC-Q200 Test 7 MIL-STD-202 Method 103	I ,000 hours; 85 °C / 85% RH I 0% of operating power Measurement at 24±4 hours after test conclusion.	$\pm (1.0\% + 0.05\Omega)$ for D/F tol $\pm (3.0\% + 0.05\Omega)$ for J tol $< 100 \text{ m}\Omega$ for Jumper
Operational Life	AEC-Q200 Test 8 MIL-STD-202 Method 108	1,000 hours at 125 °C, derated voltage applied for 1.5 hours on, 0.5 hour off, still-air required	$\pm (1.0\% + 0.05\Omega)$ for D/F tol $\pm (3.0\% + 0.05\Omega)$ for J tol <100 m Ω for Jumper
Resistance to Soldering Heat	AEC-Q200 Test 15 MIL-STD-202 Method 210	Condition B, no pre-heat of samples Lead-free solder, 260±5 °C, 10±1 seconds immersion time Procedure 2 for SMD: devices fluxed and cleaned with isopropanol	\pm (0.5%+0.05 Ω) for D/F tol \pm (1.0%+0.05 Ω) for J tol <50 m Ω for Jumper No visible damage
Thermal Shock AEC-Q200 Test 16 MIL-STD-202 Method 107		-55/+125 °C Number of cycles is 300. Devices mounted Maximum transfer time is 20 seconds. Dwell time is 15 minutes. Air – Air	$\pm (0.5\% + 0.05\Omega)$ for D/F tol $\pm (1.0\% + 0.05\Omega)$ for J tol <50 m Ω for Jumper
ESD	AEC-Q200 Test 17 AEC-Q200-002	Human Body Model, I _{pos.} + I _{neg.} discharges 0201: 500V 0402/0603: IKV 0805 and above: 2KV	±(3.0%+0.05 $Ω$) <50 m $Ω$ for Jumper

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TEST	TEST METHOD	PROCEDURE	REQUIREMENTS
Solderability - Wetting	AEC-Q200 Test 18 J-STD-002	 Electrical Test not required Magnification 50X SMD conditions: (a) Method B, aging 4 hours at 155 °C dry heat, dipping at 235±3 °C for 5±0.5 seconds. (b) Method B, steam aging 8 hours, dipping at 215±3 °C for 5±0.5 seconds. (c) Method D, steam aging 8 hours, dipping at 260±3 °C for 7±0.5 seconds. 	Well tinned (≥95% covered) No visible damage
Board Flex	AEC-Q200 Test 21 AEC-Q200-005	Chips mounted on a 90mm glass epoxy resin PCB (FR4) Bending for 0201/0402: 5 mm 0603/0805: 3 mm 1206 and above: 2 mm Holding time: minimum 60 seconds	±(1.0%+0.05 Ω) <50 m Ω for Jumper
Temperature Coefficient of Resistance (T.C.R.)	MIL-STD-202 Method 304	At +25/–55 °C and +25/+125 °C Formula: T.C.R= $\frac{R_2-R_1}{R_1(t_2-t_1)}$ × 10 ⁶ (ppm/°C) Where t_1 =+25 °C or specified room temperature t_2 =-55 °C or +125 °C test temperature R_1=resistance at reference temperature in ohms R_2=resistance at test temperature in ohms	Refer to table 2
Short Time Overload	IEC60115-14.13	2.5 times of rated voltage or maximum overload voltage whichever is less for 5 sec at room temperature	±(1.0%+0.05 Ω) for D/F tol ±(2.0%+0.05 Ω) for J tol <50 m Ω for Jumper
FOS	ASTM-B-809-95	Sulfur (saturated vapor) 500 hours, 60±2° C , unpowered	±(1.0%+0.05 Ω)

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<u>REVISION HISTORY</u>

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 6	May 31, 2017	-	- Add 10" packing
Version 5	Dec. 07, 2015	-	- Add in AC double power
Version 4	May 25, 2015	-	- Remove 7D packing
			- Extend resistance range - Add in AC0201 - Update FOS test and requirements
Version 3	Feb 13, 2014	-	 Feature description updated add ±0.5%
Version 2	Feb. 10, 2012	-	- delete 10" taping reel - Jumper criteria added
			- AC1218 marking and outline figure updated
Version I	Feb. 01, 2011	-	- Case size 1210, 1218, 2010, 2512 extended - Test method and procedure updated - Packing style of 7D added
Version 0	Nov. 10, 2010	-	- First issue of this specification

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