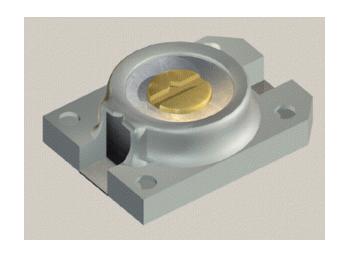
CHIP TRIM CERAMIC TRIMMER CAPACITORS AT 0300 RoHS & AT 1300 RoHS

SURFACE MOUNT TRIMMER CAPACITORS, RoHS COMPLIANT

Description

Very compact package type
Ceramic dielectric
Special design for reflow soldering use
Rated voltage 100 VDC
Low temperature coefficient
Low capacitance drift
Very stable over time
Terminals are pure tin plated
ROHS compliant
High resonance frequency and very good Q
Special design for easy vacuum pickup
Delivered on 12 mm tape and reel
Maximum Soldering Temperature 265°C, 3 s Max



Applications

Mobile and Radio communications equipments : Filters, Oscillators TCXO, VCO Control remote Security systems Low power amplifiers

I. Electrical specifications

D/N	AT 0303	AT 0306	AT 0308	AT 0310	AT 0315	AT 0320	AT 0330	AT 0340
P/N	AT 1303	AT 1306	AT 1308	AT 1310	AT 1315	AT 1320	AT 1330	AT 1340
From below	1.5	2.0	3.0	2.0	3.0	4.5	5.5	8.0
Capacitance range (pF)	+50%	+50%	+50%	+50%	+50%	+50%	+50%	+50%
To above +50%/-0	3.0-0	6.0-0	8.0-0	10.0-0	15.0-0	20.0-0	30.0-0	40.0-0
Working Voltage (VDC)		100						
Withstanding Voltage (VDC)	220							
Working Temp. range	-40°C to +85°C							
Temp. Coeff. (ppm/°C)	0+/-200	0+/-300	-750+/- 500	0+/-300	0+/-300	0+/-500	-750+/-500	-750+/- 500
Capacitance drift (pF)	0.1 Max 0.2		0.2 Max	0.3 Max	0.4 Max	0.5 Max	1.0 Max	1.2 Max
Setting drift	< 1%							
Typical Self-Resonance Frequency at CMax (GHz)								
AT 0300 series	2.0	1.4	1.2	1.1	0.9	0.8	0.6	0.4
AT 1300 series	2.3	1.6	1.4	1.2	1.0	0.9	0.7	0.5
Insulation Resistance (MΩ)	10000 min							

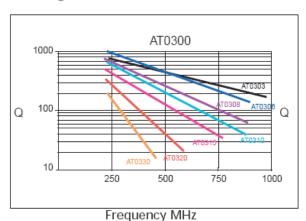


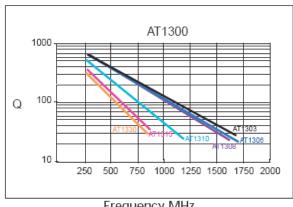
180 07/2015

CHIP TRIM CERAMIC TRIMMER CAPACITORS AT 0300 RoHS & AT 1300 RoHS

SURFACE MOUNT TRIMMER CAPACITORS, RoHS COMPLIANT

II. Quality factor





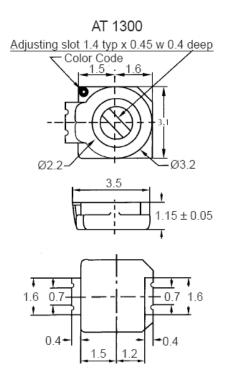
Frequency MHz

III. Mechanical and general specifications

D/N	AT 1303	AT 1306	AT 1308	AT 1310	AT 1315	AT 1320	AT 1330	AT 1340	
	AT 0303	AT 0306	AT 0308	AT 0310	AT 0315	AT 0320	AT 0330	AT 0340	
Color Code	Black	Blue	Violet	White	Pink	Red	Orange	Yellow	
Rotating Torque	10 to 70 g.cm								
Tensile strength of terminal	500 g								
Resistance to axial load	250 g min								

IV. Outline dimensions

AT 0300 Adjusting slot 1.4 typ x 0.45 w 0.4 deep Color Code Ø3.2 0.65 ± 0.02 1,5 -0.2 3.2





07/2015

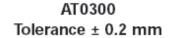
EXXELIA TEMEX reserves the right to modify herein specifications and information at any time when necessary to provide optimum performance and cost.

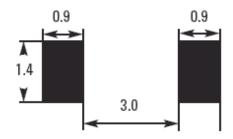
CHIP TRIM CERAMIC TRIMMER CAPACITORS AT 0300 RoHS & AT 1300 RoHS

SURFACE MOUNT TRIMMER CAPACITORS, RoHS COMPLIANT

V. Soldering

Typical solder pad layout

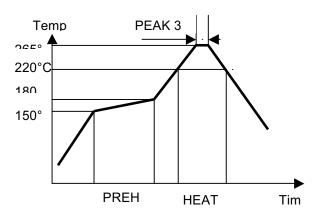




AT1300 Tolerance ± 0.1 mm 4.4 1.8 2.4

Thickness of printed solder: 0.15 mm Recommended reflow solder temperature profile

Maximum Soldering Temperature 265°C MAX



VI. Packaging

Parts are delivered

- in bulk for quantity lower than 1 kp
- on tape and reel in 12 mm width carrier tape in quantities of 1 kp on 7 inches reel

VII. How to order

Parts in quantity < 1 kp

Reference **ROHS** Example AT 1310 **RoHS**

Parts on tape and reel:

Reference **ROHS** AT 0303 R2 **ROHS** Example



07/2015

CHIP TRIM CERAMIC TRIMMER CAPACITORS AT 0300 RoHS & AT 1300 RoHS

SURFACE MOUNT TRIMMER CAPACITORS, RoHS COMPLIANT

VIII. Tuning

Recommended Tuning Tool reference: AT 8777 When tuning, do not apply an axial force higher than 1.5 N (150 g)

VIII. Storage conditions

Do not store components under direct sunlight or in dewy environment, and in corrosive condition. Before use, store components under condition of -10°C to +40°C and humidity of 75% RH Max. It is recommended to use components within 6 months after delivery

183



07/2015

EXXELIA TEMEX reserves the right to modify herein specifications and information at any time when necessary to provide optimum performance and cost.

HIGH VOLTAGE CHIP TRIM CERAMIC TRIMMER CAPACITORS AT 03HV00 SERIES

SURFACE MOUNT TRIMMER CAPACITORS, RoHS COMPLIANT

Description

Very compact package type

Ceramic dielectric

Special design for reflow soldering use

Rated voltage 350 VDC (test 770 VDC)

Low temperature coefficient

Low capacitance drift

Very stable over time

Terminals are pure tin plated

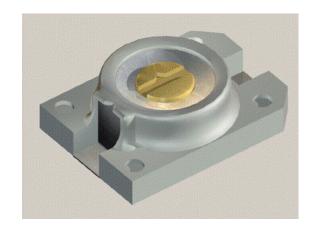
High resonance frequency and very good Q

Special design for easy vacuum pickup

Delivered on 12 mm tape and reel

RoHS compliant

Maximum Soldering Temperature 265°C, 3 s Max



Applications

High power radio transmission Power amplifier for cellular base station Amplifier for cable TV

I. Electrical specifications

P/N	AT 03HV03 RoHS	AT 03HV06 RoHS	AT 03HV08 RoHS	AT 03HV10 RoHS	AT 03HV15 RoHS	AT 03HV20 RoHS			
From below	1.5	2.0	3.0	2.0	3.0	4.5			
Capacitance range (pF)	+50%	+50%	+50%	+50%	+50%	+50%			
To above	3.0-0	6.0-0	8.0-0	10.0-0	15.0 ₋₀	20.0-0			
Working Voltage(VDC)			35	50					
WithstandingVoltage(VDC)		770							
Working Temp. range	-40°C to +85°C								
Temp. Coeff. (ppm/°C)	0+/-200	0+/-300	-750+/-500	0+/-300	0+/-500	0+/-500			
Capacitance drift (pF)	0.1 Max	0.1 Max	0.2 Max	0.3 Max	0.4 Max	0.5 Max			
Setting drift	<1%								
Typical Self-Resonance Frequency at CMax (GHz)	2.0	1.4	1.2	1.1	0.9	0.8			
Insulation Resistance (MΩ)	10000 min								
Q @ 1 Mz, Cmax	500 min								

II. Mechanical and general specifications

P/N	AT 03HV03 RoHS	AT 03HV06 RoHS	AT 03HV08 RoHS	AT 03HV10 RoHS	AT 03HV15 RoHS	AT 03HV20 RoHS
Color Code	Black	Blue	Violet	None	Pink	Red
Rotating Torque			10 to 7	0 g.cm		
Tensile strength of terminaison 250 g				O g		
Resistance to axial load 500 g						

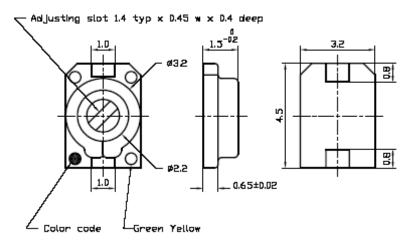


184 07/2015

HIGH VOLTAGE CHIP TRIM CERAMIC TRIMMER CAPACITORS AT 03HV00 SERIES

SURFACE MOUNT TRIMMER CAPACITORS, RoHS COMPLIANT

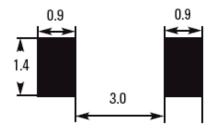
III. outline dimensions



Green Yellow dot means AT 03HV00 ROHS series, and color dot indicates reference of the model

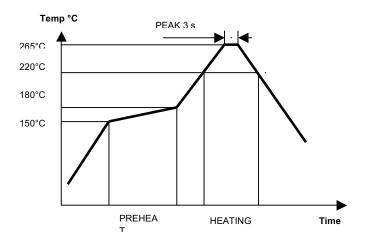
IV. soldering

AT 03HV00 ROHS Series Typical solder pad layout Tolerance ± 0.2 mm



Thickness of printed solder: 0.15 mm

Recommended reflow solder temperature profile Maximum Soldering Temperature 265°C MAX





185 07/2015

HIGH VOLTAGE CHIP TRIM CERAMIC TRIMMER CAPACITORS AT 03HV00 SERIES

SURFACE MOUNT TRIMMER CAPACITORS, RoHS COMPLIANT

V. Packaging

Parts are delivered:

- on tape and reel in 12 mm width carrier tape in quantities of 1 kp on 7 inches reel
- in bulk for quantity lower than 1 kp

VI. How to order

Parts on tape and reel : Reference R2 RoHS

Example AT 03HV03 R2 RoHS

Parts in quantity < 1 kp Reference RoHS

Example AT 03HV10 RoHS

VII. Tuning

Recommended Tuning Tool reference: AT 8777

When tuning, do not apply an axial force higher than 1.5 N (150 g)

VIII. Storage conditions

Do not store components under direct sunlight or in dewy environment, and in corrosive condition. Before use, store components under condition of -10°C to +40°C and humidity of 75% RH Max. It is recommended to use components within 6 months after delivery

