# Slim-Mox

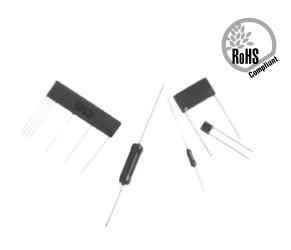
# **Precision Thick Film Planar**

# APPLICATIONS

- HV power supplies
- Medical instrumentation
- Current pulse limiters
- Ionization chambers

# **FEATURES**

- High dielectric & low outgassing epoxy coating
- · Low resistor noise
- Non inductive
- · RoHS compliant
- · Radial terminals



SERIES SPECIFICATIONSMax.Capac-<br/>itanceResistance<br/>Range (0hms)Power @25°COperating itance walues, with voltage ratings up to 25K. Low temperature coefficients are available for high stability circuit applications.(10003 100Ω to 500M0.25W1.5KV1.00(10103 100Ω to 1,000M0.50W2.0KV1.00(10203 200Ω to 5,000M1.00W5.0KV0.90
Ohmite's Slim-Mox provides stable performance for a wide range of resistance values, with voltage ratings up to 25K. Low temperature coefficients are available for high stability circuit applications. The space-saving planar package offers and alternative to traditional high voltage

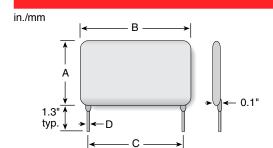
resistors.

Ohmite Series	Resistance Range (Ohms)	Power @25°C	Max. Operating Voltage	Capac- itance (pf)
SLIM-MOX10003	$100\Omega$ to $500M$	0.25W	1.5KV	1.00
SLIM-MOX10103	$100\Omega$ to $1,000M$	0.50W	2.0KV	1.00
SLIM-MOX10203	$200\Omega$ to 5,000M	1.00W	5.0KV	0.90
SLIM-MOX10303	250 $\Omega$ to 5,000M	1.25W	7.5KV	0.75
SLIM-MOX10403	$500\Omega$ to $5,000M$	1.50W	10.0KV	0.70
SLIM-MOX10603	750Ωto 5,000M	2.00W	15.0KV	0.65
SLIM-MOX10803	1K to 5,000M	2.50W	20.0KV	0.60
SLIM-MOX20203	$500\Omega$ to $5,000M$	1.50W	5.0KV	1.10
SLIM-MOX20403	1K to 5,000M	2.00W	10.0KV	0.80
SLIM-MOX20603	2K to 5,000M	2.50W	15.0KV	0.75
SLIM-MOX20803	2K to 5,000M	3.00W	20.0KV	0.65
SLIM-MOX21003	3K to 5,000M	3.50W	25.0KV	0.60
SLIM-MOX30603	3K to 5,000M	3.50W	15.0KV	0.75
SLIM-MOX30803	4K to 5,000M	4.00W	20.0KV	0.50
SLIM-MOX31003	5K to 5,000M	4.50W	25.0KV	0.40
SLIM-MOX40403	3K to 5,000M	3.00W	10.0KV	1.00
SLIM-MOX40803	5K to 5,000M	5.00W	20.0KV	0.80
SLIM-MOX41003	5K to 5,000M	5.50W	25.0KV	0.50

Contact Ohmite for custom configurations. \*Maximum voltage and power rating determined by Ohm's law:  $P=V^2/R$ 

CHARAC	TERISTICS
Resistor Element	Thick film on Alumina

Resistor Element	Thick film on Alumina
Coating	Epoxy or Silicone
Terminals	RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
Resistance Range	100 Ohms to 5,000M
Power Rating	0.25W to 5.5W
Voltage Rating	1.5KV to 25KV
Tolerance	0.5% to 20%; not all toler- ances available in all values
Operating Temperature	-55°C to +110°C
Temperature Coefficient	See table



MED		

Series	Power @25°C	A max.	B max.	C ±0.025	D ±0.002
SLIM-MOX10003	0.25W	0.30" / 7.62	0.30" / 7.62	0.10" / 2.54	0.025" / 0.635
SLIM-MOX10103	0.50W	0.34" / 8.64	0.33" / 8.38	0.20" / 5.08	0.025" / 0.635
SLIM-MOX10203	3 1.00W	0.34" / 8.64	0.58" / 14.73	0.40" / 10.16	0.032" / 0.813
SLIM-MOX10303	3 1.25W	0.34" / 8.64	0.83" / 21.08	0.60" / 15.24	0.032" / 0.813
SLIM-MOX10403	3 1.50W	0.34" / 8.64	1.08" / 27.43	0.90" / 22.86	0.032" / 0.813
SLIM-MOX10603	3 2.00W	0.34" / 8.64	1.58" / 40.13	1.40" / 35.56	0.032" / 0.813
SLIM-MOX10803	3 2.50W	0.34" / 8.64	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX20203	3 1.50W	0.59" / 14.99	0.58" / 14.73	0.40" / 10.16	0.032" / 0.813
SLIM-MOX20403	3 2.00W	0.59" / 14.99	1.08" / 27.43	0.90" / 22.86	0.032" / 0.813
SLIM-MOX20603	3 2.50W	0.59" / 14.99	1.58" / 40.13	1.40" / 35.56	0.032" / 0.813
SLIM-MOX20803	3.00W	0.59" / 14.99	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX21003	3.50W	0.59" / 14.99	2.58" / 65.53	2.40" / 60.96	0.032" / 0.813
SLIM-MOX30603	3.50W	0.84" / 21.34	1.58" / 40.13	1.40" / 35.56	0.032" / 0.813
SLIM-MOX30803	3 4.00W	0.84" / 21.34	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX31003	3 4.50W	0.84" / 21.34	2.58" / 65.53	2.40" / 60.96	0.032" / 0.813
SLIM-MOX40403	3.00W	1.09" / 27.69	1.08" / 27.43	0.90" / 22.86	0.032" / 0.813
SLIM-MOX40803	3 5.00W	1.09" / 27.69	2.08" / 52.83	1.90" / 48.26	0.032" / 0.813
SLIM-MOX41003	3 5.50W	1.09" / 27.69	2.58" / 65.53	2.40" / 60.96	0.032" / 0.813



# **Precision Thick Film Voltage**

Multiple taps are provided on the Slim-Mox RD for use in advanced circuit designs. Tight ratio tolerances make these resistors ideal for precision applications requiring consistent performance.

# **FEATURES**

- · Custom configurations are available. Contact Ohmite with vour specifications
- RoHS compliant

# SERIES SPECIFICATIONS

Ohmite Series	Power @25°C	Operating Voltage
SLIM-MOX103RD	0.75W	5.0KV
SLIM-MOX104RD	1.00W	10.0KV
SLIM-MOX106RD	1.50W	12.0KV
SLIM-MOX108RD	2.00W	15.0KV
SLIM-MOX204RD	1.50W	10.0KV
SLIM-MOX206RD	2.00W	12.0KV
SLIM-MOX208RD	2.50W	20.0KV
SLIM-MOX210RD	3.00W	25.0KV
SLIM-MOX306RD	3.00W	12.0KV
SLIM-MOX308RD	3.50W	20.0KV
SLIM-MOX310RD	4.00W	25.0KV
SLIM-MOX408RD	4.50W	20.0KV
SLIM-MOX410RD	5.00W	25.0KV

Contact Ohmite for custom configurations.

# CHARACTERISTICS

Resistance range 1M to 5,000M ohms

Resistance ratio 100:1 - 5000:1

To specify dividers outside this range, please see our website at:

https://www.ohmite.com/custom-resistor-divider/

A complete description of the SLIM-MOX Divider is required. EXAMPLE:

 $R_T = 500M\Omega 5\%$  $R_1 = 499.5M\Omega 5\%$  $R_2 = 500 K\Omega 1\%$ 

Ratio =  $R_T / R_2 = 1,000: 1, 1\%$ 

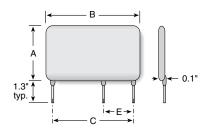
Resistor element Thick film on Alumina

Ratio tolerances 0.5% to 5%

Temperature TCR tracking to 10ppm and VCR track-Coefficient Tracking ing to 1ppm

#### DIMENSIONS

in. ±.025 /mm



Series	C	E
SLIM-MOX103RD	0.60"/ 15.24	0.20"/ 5.08
SLIM-MOX104RD	0.90"/ 22.86	0.20"/ 5.08
SLIM-MOX106RD	1.40"/ 35.56	0.20"/ 5.08
SLIM-MOX108RD	1.90"/ 48.26	0.60"/ 15.24
SLIM-MOX204RD	0.90"/ 22.86	0.20"/ 5.08
SLIM-MOX206RD	1.40"/ 35.56	0.20"/ 5.08
SLIM-MOX208RD	1.90"/ 48.26	0.40"/ 10.16
SLIM-MOX210RD	2.40"/ 60.96	0.20"/ 5.08
SLIM-MOX306RD	1.40"/ 35.56	0.30"/ 7.62
SLIM-MOX308RD	1.90"/ 48.26	0.30"/ 7.62
SLIM-MOX310RD	2.40"/ 60.96	0.20"/ 5.08
SLIM-MOX408RD	1.90"/ 48.26	0.30"/ 7.62
SLIM-MOX410RD	2.40"/ 60.96	0.20"/ 5.08

# Slim-Mox HT

# **High Temperature Thick Film Precision**

The Slim-Mox HT provides a higher power rating for high ambient temperature environments. Appropriate for mounting near heat generating components. The Slim-Mox HT is finished with a rugged silicone coating suitable for most environments.

# SERIES SPECIFICATIONS

Ohmite Series	Resistance Range (Ohms)	Power @25°C	Voltage Rating
SLIM-MOX10002	$100\Omega$ to $500M$	0.40W	1.5KV
SLIM-MOX10102	100Ω to 1,000M	0.75W	2.0KV
SLIM-MOX10202	200Ω to 5,000M	1.50W	5.0KV
SLIM-MOX10302	250 $\Omega$ to 5,000M	2.00W	7.5KV
SLIM-MOX10402	$500\Omega$ to $5,000M$	2.50W	10.0KV
SLIM-MOX10602	750Ω to 5,000M	3.25W	15.0KV
SLIM-MOX10802	1K to 5,000M	4.25W	20.0KV
SLIM-MOX20202	500Ω to 5,000M	2.50W	5.0KV
SLIM-MOX20402	1K to 5,000M	3.25W	10.0KV
SLIM-MOX20602	2K to 5,000M	4.25W	15.0KV
SLIM-MOX20802	2K to 5,000M	5.00W	20.0KV
SLIM-MOX21002	3K to 5,000M	5.75W	25.0KV
SLIM-MOX30602	3K to 5,000M	5.50W	15.0KV
SLIM-MOX30802	4K to 5,000M	6.75W	20.0KV
SLIM-MOX31002	5K to 5,000M	7.50W	25.0KV
SLIM-MOX40402	3K to 5,000M	5.00W	10.0KV
SLIM-MOX40802	5K to 5,000M	8.25W	20.0KV
SLIM-MOX41002	5K to 5,000M	9.00W	25.0KV

Contact Ohmite for custom configurations.

# **APPLICATIONS**

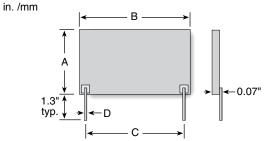
- HV power supplies
- Medical instrumentation
- Current pulse limiters
- Ionization chambers

# **FEATURES**

- Outstanding voltage coefficient
- High temperature silicone coating
- Low resistor noise
- Noninductive
- Custom configurations are available.
   Contact Ohmite with your specifications
- RoHS compliant
- Radial Terminals

# CHARACTERISTICS

Resistor Element	Thick film on Alumina
Coating	Silicone
Resistance Range	100Ω to 5,000M
Power Rating	0.25W to 9.0W
Voltage Rating	1.5KV to 25KV
Tolerance	0.5% to 20%; not all tolerances available in all values
Operating Temperature	-55°C to +180°C



# DIMENSIONS

Series	Power @25°C	A max.	B max.	C ±0.025	D ±0.002
SLIM-MOX10002	0.40W	0.20" / 5.08	0.20" / 5.08	0.10" / 2.54	0.025" / 0.635
SLIM-MOX10102	0.75W	0.25" / 6.35	0.25" / 6.35	0.20" / 5.08	0.025" / 0.635
SLIM-MOX10202	1.50W	0.25" / 6.35	0.50" / 12.70	0.40" / 10.16	0.032" / 0.813
SLIM-MOX10302	2.00W	0.25" / 6.35	0.75" / 19.05	0.60" / 15.24	0.032" / 0.813
SLIM-MOX10402	2.50W	0.25" / 6.35	1.00" / 25.40	0.90" / 22.86	0.032" / 0.813
SLIM-MOX10602	3.25W	0.25" / 6.35	1.50" / 38.10	1.40" / 35.56	0.032" / 0.813
SLIM-MOX10802	4.25W	0.25" / 6.35	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX20202	2.50W	0.50" / 12.70	0.50" / 12.70	0.40" / 10.16	0.032" / 0.813
SLIM-MOX20402	3.25W	0.50" / 12.70	1.00" / 38.10	0.90" / 22.86	0.032" / 0.813
SLIM-MOX20602	4.25W	0.50" / 12.70	1.50" / 38.10	1.40" / 35.56	0.032" / 0.813
SLIM-MOX20802	5.00W	0.50" / 12.70	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX21002	5.75W	0.50" / 12.70	2.50" / 63.50	2.40" / 60.96	0.032" / 0.813
SLIM-MOX30602	5.50W	0.75" / 19.05	1.50" / 38.10	1.40" / 35.56	0.032" / 0.813
SLIM-MOX30802	6.75W	0.75" / 19.05	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX31002	7.50W	0.75" / 19.05	2.50" / 63.50	2.40" / 60.96	0.032" / 0.813
SLIM-MOX40402	5.00W	1.00" / 25.40	1.00" / 25.40	0.90" / 22.86	0.032" / 0.813
SLIM-MOX40802	8.25W	1.00" / 25.40	2.00" / 50.80	1.90" / 48.26	0.032" / 0.813
SLIM-MOX41002	9.00W	1.00" / 25.40	2.50" / 63.50	2.40" / 60.96	0.032" / 0.813



# Slim-Mox HT Divider

# High Temperature Thick Film Voltage Divider

Slim-Mox HT RD resistor dividers complete the Slim-Mox family with the high temperature divider configuration. These resistors are useful wherever multiple voltage drops are needed in a circuit. Designed to customer specifications, the Slim-Mox HT RD resistor utilizes our thick film on alumina technology to offer flexible termination schemes.

### **FEATURES**

- High Temperature Operation
- RoHS compliant
- Radial Terminals

Ohmite Series	Power @25°C	Operating Voltage
SLIM-MOX103RD	1.25W	5.0KV
SLIM-MOX104RD	1.50W	10.0KV
SLIM-MOX106RD	2.50W	12.0KV
SLIM-MOX108RD	3.25W	15.0KV
SLIM-MOX204RD	2.50W	10.0KV
SLIM-MOX206RD	3.25W	12.0KV
SLIM-MOX208RD	4.25W	20.0KV
SLIM-MOX210RD	5.00W	25.0KV
SLIM-MOX306RD	4.50W	12.0KV
SLIM-MOX308RD	5.00W	20.0KV
SLIM-MOX310RD	5.75W	25.0KV
SLIM-MOX408RD	6.75W	20.0KV
SLIM-MOX410RD	7.50W	25.0KV

SERIES SPECIFICATIONS

Contact Ohmite for custom configurations.

#### CHARACTERISTICS

Resistance range 1M to 5,000M ohms

**Resistance ratio** 100:1 - 5000 : 1

To specify dividers outside this range, please see our website at:

https://www.ohmite.com/custom-resis-

tor-divider/

A complete description of the SLIM-MOX Divider is required. EXAMPLE:

 $R_T = 500M\Omega 5\%$  $R_1 = 499.5M\Omega 5\%$ 

 $R_2 = 500 \text{K}\Omega \ 1\%$ Ratio = R<sub>T</sub> /  $R_2 = 1,000$ : 1, 1%

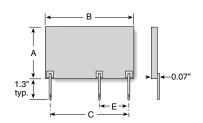
Resistor element Thick film on Alumina

Ratio tolerances 0.5% to 5%

Temperature TCR tracking to 10ppm and VCR track-Coefficient Tracking ing to 1ppm To specify Slim-Mox Dividers, please see our website at:

https://www.ohmite.com/custom-resistor-divider/

### in. ±0.025 /mm



Series	Power Rating	C	E
SLIM-MOX103RD	1.25W	0.60" / 15.24	0.20" / 5.08
SLIM-MOX104RD	1.50W	0.90" / 22.86	0.20" / 5.08
SLIM-MOX106RD	2.50W	1.40" / 35.56	0.20" / 5.08
SLIM-MOX108RD	3.25W	0.90" / 22.86	0.60" / 15.24
SLIM-MOX204RD	2.50W	0.90" / 22.86	0.20" / 5.08
SLIM-MOX206RD	3.25W	1.40" / 35.56	0.20" / 5.08
SLIM-MOX208RD	4.25W	1.90" / 48.26	0.40" / 10.16
SLIM-MOX210RD	5.00W	2.40" / 60.96	0.20" / 5.08
SLIM-MOX306RD	4.50W	1.40" / 35.56	0.30" / 7.62
SLIM-MOX308RD	5.00W	1.90" / 48.26	0.30" / 7.62
SLIM-MOX310RD	5.75W	2.40" / 60.96	0.20" / 5.08
SLIM-MOX408RD	6.75W	1.90" / 48.26	0.30" / 7.62
SLIM-MOX410RD	7.50W	2.40" / 60.96	0.20" / 5.08

DIMENSIONS

(continued)



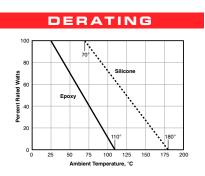
# **All products**

# TEMPERATURE/VOLTAGE COEFFICIENTS OF RESISTANCE

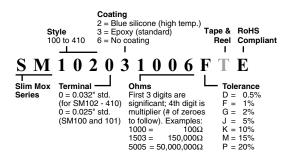
Temp. Coeff. of Resistance*						
Resistor Series	0°C-85°C	85°(	C-125°C	Voltage Coeff.	of Resistance**	
	25 PPM/°C	50 PPM/°C	100 PPM/°C	< 2PPM/Volt	< 5PPM/Volt	
SLIM-MOX100 SLIM-MOX101 SLIM-MOX102 SLIM-MOX103 SLIM-MOX104 SLIM-MOX106 SLIM-MOX108	100 to 300M 100 to 800M 200 to 1,500M 250 to 800M 500 to 2,500M 750 to 5,000M 1K to 2,500M	$100\Omega$ to $50M$ $100\Omega$ to $100M$ $200\Omega$ to $250M$ $250\Omega$ to $440M$ $500\Omega$ to $450M$ $750\Omega$ to $675M$ 1K to $375M$	51M to 500M 101M to 1,000M 251M to 5,000M 441M to 5,000M 451M to 5,000M 676M to 5,000M 376M to 5,000M	$100\Omega$ to $140M$ $100\Omega$ to $270M$ $200\Omega$ to $640M$ $250\Omega$ to $1,100M$ $500\Omega$ to $1,100M$ $750\Omega$ to $1,600M$ 1K to $940M$	141M to 500M 271M to 1,000M 641M to 5,000M 1,101M to 5,000M 1,101M to 5,000M 1,601M to 5,000M 941M to 5,000M	
SLIM-MOX202	500 to 1,500M	500Ω to 200M	201M to 5,000M	500Ω to 520M	521M to 5,000M	
SLIM-MOX204	1K to 1,750M	1K to 375M	376M to 5,000M	1K to 950M	951M to 5,000M	
SLIM-MOX206	2K to 4,500M	2K to 600M	601M to 5,000M	2K to 1,500M	1,501M to 5,000M	
SLIM-MOX208	2K to 5,000M	2K to 1,000M	1,001M to 5,000M	2K to 2,500M	2,501M to 5,000M	
SLIM-MOX210	3K to 5,000M	3K to 1,000M	1,001M to 5,000M	3K to 2,600M	2,601M to 5,000M	
SLIM-MOX306	3K to 5,000M	3K to 1,000M	1,001M to 5,000M	3K to 2,600M	2,601M to 5,000M	
SLIM-MOX308	4K to 5,000M	4K to 1,200M	1,201M to 5,000M	4K to 3,000M	3,001M to 5,000M	
SLIM-MOX310	5K to 5,000M	5K to 1,500M	1,501M to 5,000M	5K to 4,000M	4,001M to 5,000M	
SLIM-MOX404	3K to 5,000M	3K to 1,100M	1,101M to 5,000M	3K to 2,800M	2,801M to 5,000M	
SLIM-MOX408	5K to 5,000M	5K to 1,250M	1,251M to 5,000M	5K to 3,000M	3,001M to 5,000M	
SLIM-MOX410	5K to 5,000M	5K to 1,200M	1,201M to 5,000M	5K to 3,000M	3,001M to 5,000M	
SLIM-MOX103RD	1M to 800M	1M to 70M	71M to 5,000M	1M to 185M	186M to 5,000M	
SLIM-MOX104RD	1M to 2,500M	1M to 275M	276M to 5,000M	1M to 720M	721M to 5,000M	
SLIM-MOX106RD	1M to 5,000M	1M to 250M	251M to 5,000M	1M to 640M	641M to 5,000M	
SLIM-MOX108RD	1M to 2,500M	1M to 350M	351M to 5,000M	1M to 875M	876M to 5,000M	
SLIM-MOX204RD	1M to 1,750M	1M to 300M	301M to 5,000M	1M to 750M	751M to 5,000M	
SLIM-MOX206RD	1M to 4,500M	1M to 1,750M	1,751M to 5,000M	1M to 4,500M	4,501M to 5,000M	
SLIM-MOX208RD	1M to 5,000M	1M to 625M	626M to 5,000M	1M to 1,550M	1,551M to 5,000M	
SLIM-MOX210RD	1M to 5,000M	1M to 950M	951M to 5,000M	1M to 2,400M	2,401M to 5,000M	
SLIM-MOX306RD	1M to 5,000M	1M to 800M	801M to 5,000M	1M to 2,000M	2,001M to 5,000M	
SLIM-MOX308RD	1M to 5,000M	1M to 1,200M	1,201M to 5,000M	1M to 2,600M	2,601M to 5,000M	
SLIM-MOX310RD	1M to 5,000M	1M to 1,000M	1,001M to 5,000M	1M to 3,900M	3,901M to 5,000M	
SLIM-MOX408RD	1M to 5,000M	1M to 1,600M	1,601M to 5,000M	1M to 4,000M	4,001M to 5,000M	
SLIM-MOX410RD	1M to 5,000M	1M to 1,200M	1,201M to 5,000M	1M to 3,000M	3,001M to 5,000M	

<sup>\*</sup> Consult factory for TCR values operating higher than 125°C \*\*VC's of <2PPM/Volt are available. Contact Ohmite with your requirement.

PERFORMANCE DATA					
Characteristic	Test Method	Specification			
Humidity	MIL-STD-202, Method 103B, Condition B	±0.25%			
Dielectric Withstanding Voltage	MIL-STD-202, Method 301, 750V	±0.25%			
Insulation Resistance	MIL-STD-202, Method 302, Condition A or B	>10,000M or greater dry			
Thermal Shock	MIL-STD-202, Method 107G, Condition B, B-1, or F	±0.20%			
Load Life	MIL-STD-202, Method 108A, Condition D	±1.0%			
Resistance to Solvents	MIL-STD-202, Method 215G	No degradation of coating or marking			
Terminal Strength	MIL-STD-202, Method 211A, Condition A or B	±0.25%			
Shock (Specified Pulse)	MIL-STD-202, Method 213B, Condition I	±0.25%			
Vibration, High Frequency	MIL-STD-202, Method 204D, Condition D	±.020%			
Power Conditioning	MIL-R-49462A, Par 4.8	±0.50%			
Solderability	MIL-STD-202, Method 208F	>95% Coverage			



### ORDERING INFORMATION



Not all tolerances available in all values. To specify Slim-Mox Dividers, please see our website at: https://www.ohmite.com/custom-resistor-divider/



# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# Ohmite:

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SM108035004F SM408038003F SM106031006F SM106031004F SM101031004F SM103031004F
SM108031004F SM103031006F SM101031504F SM108031506F SM103031506F SM101031505F SM108031005F
 SM106031007F SM104031005J SM108031006F SM102031007P SM108031003F SM108031005D
SM101031007F SM101031003F SM108031507F SM104027871F SM104027873F SM204032006K SM208035007F
 SM102022505F SM108037505F SM101035005F SM101035004F SM103035004F SM108035003F
SM102035007F SM210035006F SM104021301F SM106032004F SM106032006F SM103032005F SM108032005F
 SM104025102F SM101031005F SM210035005JE SM102021875FE SM208031006KE SM102031003J
SM102032503J SM104031005P SM102032002J SM103RD-0042 SM103034304JE SM106031007FE
SM101035004FE SM101031505FE SM101031003FE SM103035004FE SM108031003FE SM108031507FE
SM108031506FE SM108031004FE SM106031004FE SM101031004FE SM103031004FE SM103031506FE
SM101035005FE SM106031006FE SM101031504FE SM103031006FE SM106032004FE SM106032006FE
SM103032005FE SM108037505FE SM208032006KE SM103031005FE SM10202-2205-F-E SM10302-1003-F-E
SM10302-1004-F-E SM204031007K SM103031505G SM102033903FE SM103RD-0105 SM102031005J
SM206033605J SM108032507F SM103033927FE SM103035007FE SM103032107FE SM103034127FE
SM103031336FE SM103036654FE SM404025005JE SM404027504JE SM102031004FE SM101022004FE
SM101021004FE SM101021404FE SM104033007F SM106031005FE SM102032505FE SM104RD-0006
SM103037325FE
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