

RESISTORS

SMD-WIRE WOUND-POWER-SHUNT-FUSIBLE



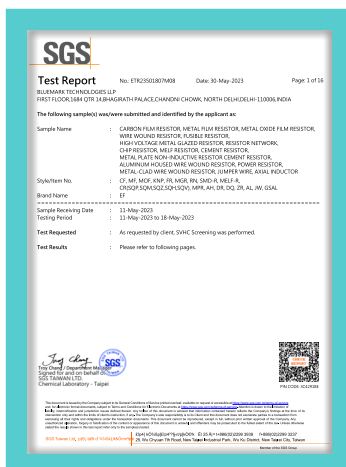
DID YOU KNOW?

With a legacy of more than a decade we are on a path towards even smaller, faster, and more energy-efficient components, driving innovation in every sector.

We harness cutting-edge materials and manufacturing techniques to empower our electronic components and as technology races forward, our components will quietly continue their vital role, ensuring the reliability and efficiency of electronic circuits.

As an ISO 9001:2015 certified company we are committed to safety and sustainability and we have achieved important quality approvals, including:

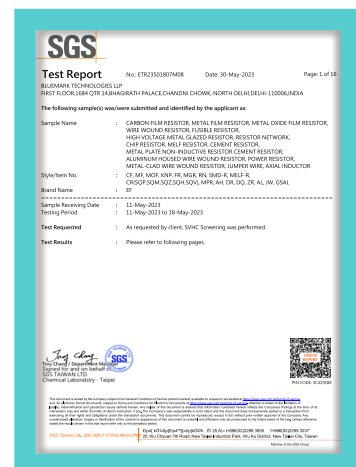
- UL:** Certified for safety and performance.
- RoHS:** Ensuring products are free from hazardous substances.
- REACH:** Compliant with EU environmental regulations.



ROHS CERTIFICATE



ISO CERTIFICATE



REACH CERTIFICATE

CONTENT

CHIP RESISTORS

SMD TYPE

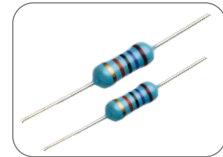
01



DIP TYPE RESISTORS

CFR | MFR | MOR | GLAZE

02



WIREWOUND RESISTORS

FUSIBLE | MINI | HIGH SURGE

02



MELF RESISTORS

CF | MF | KNP

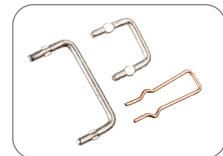
02



SHUNT RESISTORS

MILLIOHM | HIGH CURRENT

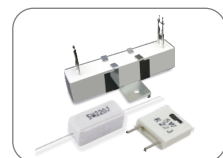
03



CEMENT TYPE RESISTOR

HIGH POWER | ALUMINIUM HOUSED | BRAKING

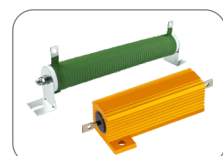
03



POWER RESISTORS

HIGH POWER | ALUMINIUM HOUSED | BRAKING

04



THICK FILM RESISTORS



RoHS
COMPLIANT

TYPE	FRC										
POWER	0201	0402	0603	0805	1206	1210	1218	1812	2010	2512	
RANGE	0R ~ 100M										
TOL	±1% ±5%										
TCR	100PPM/°C										

HIGH POWER THICK FILM



RoHS
COMPLIANT

TYPE	FRP										
POWER	0201	0402	0603	0805	1206	1210	2010	2512			
RANGE	1R ~ 10M										
TOL	±1% ±5%										
TCR	100PPM/°C										

HIGH VOLTAGE THICK FILM



RoHS
COMPLIANT

TYPE	FRV										
POWER	0603	0805	1206	1210	2010	2512					
RANGE	47R ~ 10M										
TOL	±1% ±5%										
TCR	100PPM/°C										

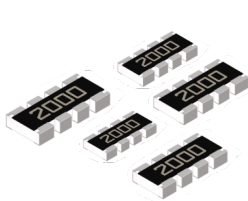
AUTOMOTIVE THICK FILM



RoHS
COMPLIANT

TYPE	FRQ										
POWER	0201	0402	0603	0805	1206	1210	2010	2512			
RANGE	1R ~ 22M										
TOL	±1% ±5%										
TCR	100PPM/°C										

THICK FILM CHIP ARRAY



RoHS
COMPLIANT

TYPE	FRC										
POWER	0402	0603	0805	1206	1210	2010	2512				
RANGE	10R ~ 10M										
TOL	±1% ±5%										
TCR	100PPM/°C										

HIGH PRECISION THICK FILM



RoHS
COMPLIANT

TYPE	FRA										
POWER	044R 064R										
RANGE	1R ~ 1M										
TOL	±1% ±5%										
TCR	100PPM/°C										

ANTI-SULFUR THICK FILM



RoHS
COMPLIANT

TYPE	FRR										
POWER	0402	0603	0805	1206	1210	2010	2512				
RANGE	1R ~ 22M										
TOL	±1% ±5%										
TCR	100PPM/°C										

LOW RESISTANCE THICK FILM



RoHS
COMPLIANT

TYPE	FRS										
POWER	0603	0805	1206	1210	2010	2512					
RANGE	1R ~ 10M										
TOL	±1% ±5%										
TCR	100PPM/°C										

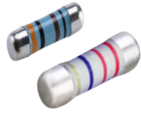
ANTI-SURGE THICK FILM



RoHS
COMPLIANT

TYPE	FRL										
POWER	0402	0603	0805	1206	1210	1812	2010	2512			
RANGE	0R1~1R 0R01~1R										
TOL	±1% ±5%										
TCR	100PPM/°C										

MELF RESISTORS



RoHS
COMPLIANT

CARBON FILM RESISTORS



RoHS
COMPLIANT

METAL OXIDE RESISTORS



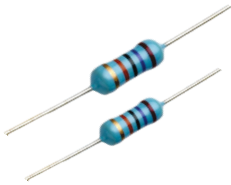
RoHS
COMPLIANT

TYPE	MELF-CF MF MOR KNP
POWER	0204 0207 0309 0411
RANGE	0R1 ~ 10M
TOL	±1% ±5% ±0.1% ±0.25% ±0.5%
TCR	100PPM/°C

TYPE	CFR
POWER	0.125W 0.25W 0.5W 1W 2W 3W 0.5WS 1WS 2WS 3WS
RANGE	0R ~ 22M
TOL	±1% ±5%
WIRE	CU CP

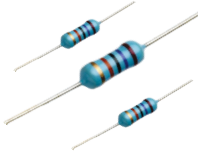
TYPE	MOR
POWER	0.125W 0.25W 0.5W 1W 2W 3W 1WS 2WS 3WS 5W
RANGE	0R ~ 22M
TOL	±1% ±5%
WIRE	CU CP

METAL FILM RESISTORS



RoHS
COMPLIANT

MINI METAL FILM RESISTOR



RoHS
COMPLIANT

METAL GLAZE RESISTORS



RoHS
COMPLIANT

TYPE	MFR
POWER	0.125W 0.25W 0.5W 1W 2W
RANGE	1R ~ 10M
TOL	±1% ±0.1% ±0.25% ±0.5%
WIRE	CU

TYPE	MFRS
POWER	0.25WS 0.4W 0.5WS 0.6W 1WS 2WS 3WS
RANGE	0R1 ~ 10M
TOL	±1% ±0.1% ±0.25% ±0.5%
WIRE	CU

TYPE	MGR
POWER	0.25W 0.5W 1W 2W
RANGE	10K ~ 200M
TOL	±1% ±5%
WIRE	CU

FUSIBLE WIREWOUND



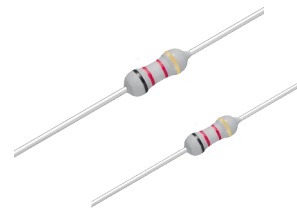
RoHS
COMPLIANT

HIGH SURGE WIREWOUND



RoHS
COMPLIANT

MINI WIREWOUND



RoHS
COMPLIANT

TYPE	FKNP
POWER	0.25WS 0.5W 0.5WS 1W 2W 1WS 2WS 3W 3WS
RANGE	0R1 ~ 1K
TOL	±5%
WIRE	CU

TYPE	KNP
POWER	0.25W 0.5W 1W 2W 5W 7W 10W
RANGE	0R01 ~ 1K
TOL	±1% ±5%
WIRE	CU

TYPE	KNPSS
POWER	0.5WS 1WS 1WSS 2WS 3WS 5WS 10WS
RANGE	0R01 ~ 3K
TOL	±1% ±5%
WIRE	CU

CERAMIC ENCASED RESISTORS



RoHS
COMPLIANT

TYPE	EF-CR
POWER	2W ~ 40W
RANGE	0R01 ~ 820K
TOL	±1% ±5%
TCR	100PPM/°C

JUMPER WIRE



RoHS
COMPLIANT

TYPE	JW
DIA	0.4MM ~ 1.0MM
PACK	TAPPING BULK M-FORM
TOL	±5%
WIRE	CU CP

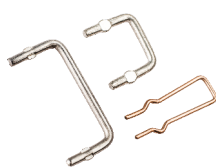
CAPACITOR DISCHARGE



RoHS
COMPLIANT

TYPE	EFC
WATT	10W 13W
RANGE	10R ~ 1M
TOL	±1% ±5%
TCR	100PPM/°C

MILLIOHM SHUNT RESISTORS



RoHS
COMPLIANT

TYPE	EFMS
POWER	0.5W ~ 5W
RANGE	1M
TOL	±1% ±5%
DIA	5MM 10MM

HIGH CURRENT SHUNT



RoHS
COMPLIANT

TYPE	EFHC
VOLTAGE	1A-330A
RANGE	10R ~ 10M
TOL	±1% ±0.1% ±0.25% ±0.5%
TCR	50, 100PPM/°C

WATER COOLED RESISTORS



RoHS
COMPLIANT

TYPE	EFWR
POWER	044R 064R
RANGE	1R ~ 1M
TOL	±1% ±5%
TCR	100PPM/°C

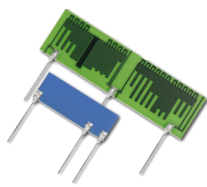
HIGH VOLTAGE RESISTORS



RoHS
COMPLIANT

TYPE	EFVR
POWER	1W ~ 12.5W
RANGE	1K ~ 1G
TOL	0.5% ~ 1%
TCR	25, 50, 100PPM/°C

HIGH VOLTAGE DIVIDER



RoHS
COMPLIANT

TYPE	EFVD
POWER	1W ~ 12.5W
RANGE	1K ~ 1G
TOL	0.5% ~ 1%
TCR	25, 50, 100PPM/°C

CURRENT SENSE ULTRA HIGH HIGH POWER



RoHS
COMPLIANT

TYPE	EFSH
POWER	200W
RANGE	0R5 ~ 1M
TOL	±5%
TCR	100PPM/°C

ULTRA HIGH POWER



RoHS
COMPLIANT

ALUMINIUM HOUSED RESISTORS



RoHS
COMPLIANT

DYNAMIC BRAKING RESISTORS



RoHS
COMPLIANT

TYPE	EFUH
POWER	800W
RANGE	0R3 ~ 1M
TOL	±5%
TCR	100PPM/°C

TYPE	EFAH
POWER	5W ~ 300W
RANGE	0.01R ~ 100K
TOL	±0.25% ~ ± 5%
TCR	30 ~ 100PPM/°C

TYPE	EFDR
POWER	60W ~ 1KW
RANGE	2R ~ 10K
TOL	±5%
TCR	100PPM/°C

HIGH POWER RESISTORS



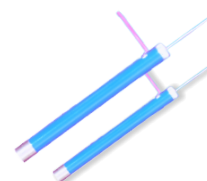
RoHS
COMPLIANT

HIGH WATTAGE RESISTORS



RoHS
COMPLIANT

HIGH WATTAGE DIVIDER



RoHS
COMPLIANT

TYPE	EFPR
POWER	150W ~ 1000W
RANGE	0.01R ~ 100K
TOL	±1% ±5% ±10%
TCR	100PPM/°C

TYPE	EF2WR
POWER	10W ~ 250W
RANGE	100K ~ 1G
TOL	±1% ~ ±10%
TCR	50 ~ 100PPM/°C

TYPE	EF2WD
POWER	10W ~ 250W
RANGE	100K ~ 1G
TOL	±0.5% ~ ±10%
TCR	50 ~ 100PPM/°C

HIGH VOLTAGE CYLINDRICAL



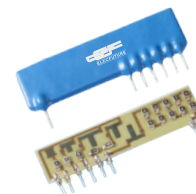
RoHS
COMPLIANT

HIGH VOLTAGE CYLINDRICAL DIVIDER



RoHS
COMPLIANT

NETWORK RESISTORS



RoHS
COMPLIANT

TYPE	EFHC
POWER	1W ~ 10W
RANGE	50K ~ 10G
TOL	±1% ~ ±20%
TCR	50,100PPM/°C

TYPE	EFVCD
POWER	0.1W ~ 10W
RANGE	50K ~ 10G
TOL	±0.1% ~ ±1%
TCR	25,50,100PPM/°C

TYPE	EFNR
RANGE	1K ~ 9M9
TOL ABSOLUTE	0.1% ~ 0.5%
TOL RATIO	±0.05% ~ ±0.2%
TCR	25,50PPM/°C



ELEC FUTURE

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