

HI - TECH RESISTORS PVT. LTD.
AN ISO TS 16949:2009 CERTIFIED COMPANY



2013



I N D E X

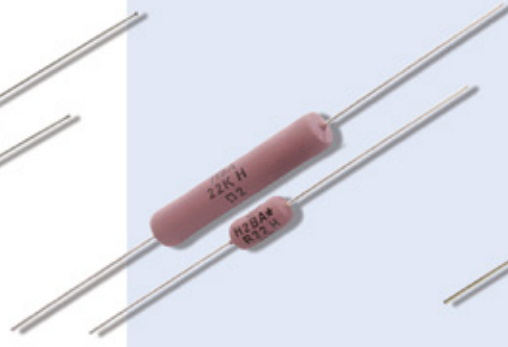
WIRE WOUND RESISTORS

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HIA

Power rating : 0.5W to 20W
Resistance range : R01 to 120K
Tolerances available : 1% - 10%
Applications : • Industrial, telecommunication and consumer electronics.
Features: • UL approved flame retardant coating • Industrial Grade - MIL sizes • Non-inductive type available.
 • Impulse resistors as per IEC 61000-4-5



HTA

Power rating : 0.75W to 12W
Resistance range : R01 to 100K
Tolerances available : 1% - 10%
Applications : • Industrial, telecommunication and consumer electronics.
Features: • UL approved flame retardant coating • Non-inductive type available
 • Impulse resistors as per IEC 61000-4-5
 • Industrial grade-JSS/IEC sizes.



VHIA

Power rating : 0.5W to 20W
Resistance range : R01 to 120K
Tolerances available : 1% - 10%
Applications : • Industrial, telecommunication and consumer electronics.
Features : • UL approved flame retardant coating. • Non-inductive type available.
 • Impulse resistors as per IEC 61000-4-5.
 • Copper clad steel wire terminations for reduced temperature on PCB.



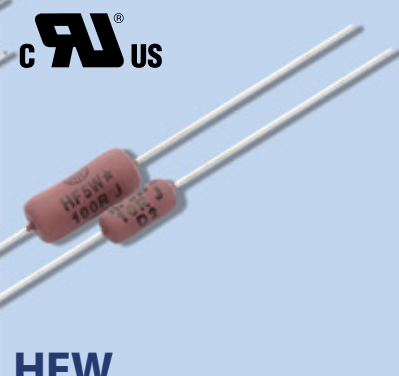
WIRE WOUND RESISTORS

Silicone Coated
 Cement Coated



FRS

Power rating : 1W to 5W
Resistance range : 10R to 100R*
Tolerance available : 1% - 10%
Applications : Consumer, telecommunication and industrial electronics.
Features : • UL 1412 approved.
 • Safety fusing at 220/240 V.
 • Tailor made fusing options available.



HFW

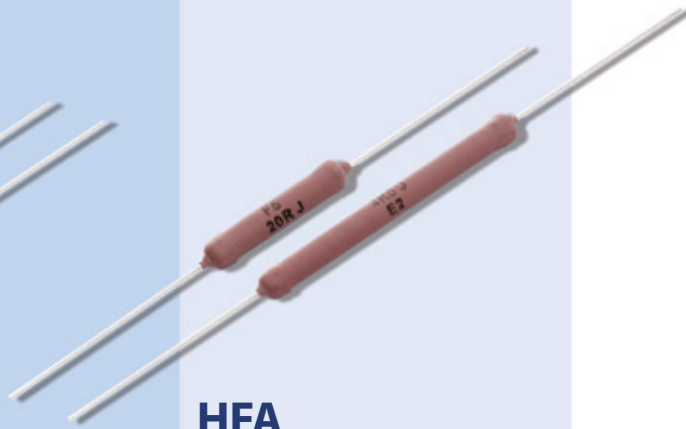
Power rating : 1W to 5W
Resistance range : 10R to 100R*
Tolerance available : 1% - 10%
Applications : Consumer, telecommunication and industrial electronics.
Features : • UL 1412 approved.
 • Safety fusing at 110/120 V.

Note * Higher resistance values available. Please enquire - info@htr-india.com



HAA

- Power rating :** 1W to 5W
Resistance range : R01 to 12K
Tolerances available : 1% - 10%
Applications :
- Miniature sizes for automotive sector.
- Features :**
- UL approved flame retardant coating
 - Industrial grade
 - Non-inductive type available, Impulse resistors as per IEC 61000-4-5



HFA

- Power Rating :** 1W to 10W
Resistance range : R10 to 51K
Tolerances Available : 5% - 10%
Applications : Low cost solution for consumer electronics.
Features :
- Fiber glass core.
 - UL approved flame retardant coating.

WIRE WOUND RESISTORS

Silicone Coated
Cement Coated



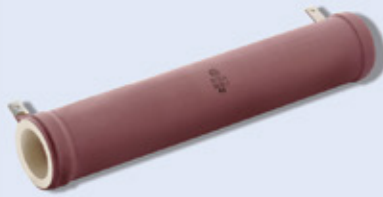
HFP

- Power rating :** 2.5W to 8W
Resistance range : R10 to 56K
Tolerances available : 5% - 10%
Applications : Commercial & industrial electronics.
Features :
- Fiber Glass core.
 - PCB pluggable style with different terminations and stand off heights available.
 - UL approved flame retardant coating.



HIP

- Power Rating :** 3W to 10W
Resistance range : R01 to 90K
Tolerances Available : 1% -10%
Applications : Commercial and industrial electronics.
Features :
- Ceramic core.
 - PCB pluggable style.
 - UL approved flame retardant coating.



HIR

Power Rating : 10W to 500W

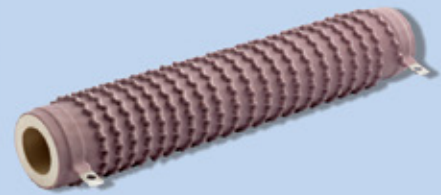
Resistance range : R22 to 100K

Tolerances Available : 5% - 10%

Applications : • High power dissipation and impulse handling capability.
• High voltage bleeder resistor in power supplies. • Load bank resistors.

Features :

- UL approved flame retardant coating.
- Radial terminals for Amp 187 & Amp 250 connectors available. • Choice of anti-rust stainless steel terminations.



RSR

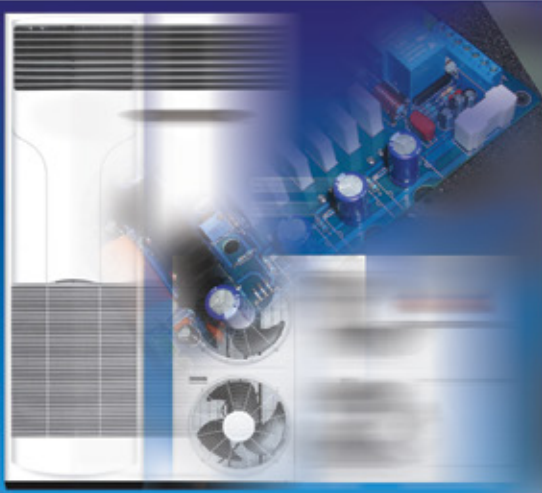
Power Rating : 40W to 500W

Resistance range : R05 to 18R

Tolerances Available : 5% - 10%

Applications : • High power dissipation and impulse handling capability. • High voltage bleeder resistor in power supplies. • Load bank resistors.

Features : • Edge wound resistive strip for reduced surface temperature. • High dissipation and very low ohmic values available. • UL approved flame retardant coating. • Radial terminals for Amp 187 & Amp 250 connectors available. • Choice of anti-rust stainless steel terminations.



WIRE WOUND RESISTORS



HSR

Power Rating : 8.25W and 20W

Resistance range : 10K to 120K

Tolerances Available : 1% -10%

Applications :

- Capacitor charging and discharging resistors.

Features :

- Wire wound symmetry resistors.
- UL approved flame retardant coating.
- Stainless steel terminals for mounting on capacitors.



HSRC

Power rating : 11W to 25W

Resistance range : 10K to 110K

Tolerance available : 1% - 10%

Applications : • Capacitor charging and discharging resistors.

Features :

- Wire wound symmetry resistors.
- Ceramic enclosed resistors for greater heat dissipation. • Stainless steel terminals for mounting on capacitors.
- Customised solutions available upto 40W.



HCA

Power rating : 1W to 20W
Resistance range : R05 to 56K
Tolerance available : 1% - 10%

Applications :
 Industrial and consumer electronics.
Features:

- Fibre glass and ceramic core available.
- Ceramic encased for high degree of insulation and low surface temperature.
- Impulse types available.
- Non inductive type available.



HCV

With bracket
Power rating : 7W to 20W
Resistance range : R05 to 56K
Tolerance available : 1% - 10%

Applications : Industrial and consumer electronics.
Features :

- High stability vertical mounting bracket available.
- Fibre glass and ceramic core available.
- Ceramic encased for high degree of insulation and low surface temperature.
- Impulse types available.
- Non inductive type available.



HCW

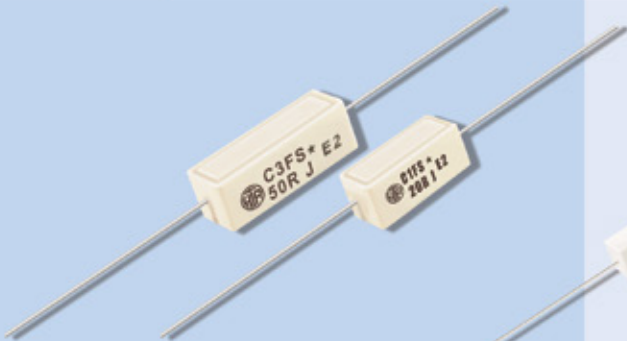
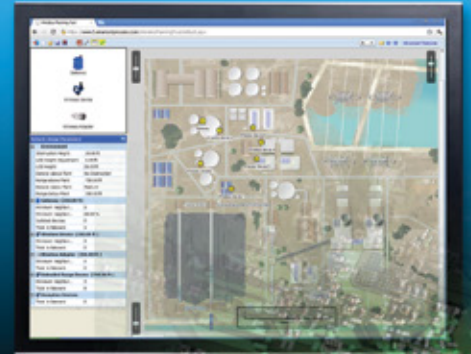
Power rating : 1W to 20W
Resistance range : R05 to 56K
Tolerance available : 1% - 10%

Applications : Industrial and consumer electronics.

- Features :**
- Ceramic core.
 - Ceramic encased for high degree of insulation and low surface temperature.
 - Impulse types available.
 - Non inductive type available.
 - Copper clad steel wire terminations for reduced temperature onPCB.
 - Low TCR options available.

WIRE WOUND RESISTORS

Ceramic Encased



FRC

Power rating : 1W to 3W
Resistance range : 10R to 750R
Tolerance available : 3% - 10%

Applications : Industrial and consumer electronics.
Features :

- Safety fusing at 110/120V and 220/240V.
- Tailor made fusing options available.
- Fibre glass and ceramic core available.
- Ceramic encased for high degree of insulation and low surface temperature.



HEA

Power rating : 1W to 17W
Resistance range : R025 to 82K
Tolerance available : 1% - 10%

Applications : Industrial and consumer electronics.
Features :

- Fibre glass and ceramic core available.
- Ceramic encased for high degree of insulation & low surface temperature.
- Impulse types available.
- Non inductive type available.



HSV

Power rating : 4W to 17W

Resistance range : R04 to 82K

Tolerance available : 1% - 10%

Applications : • Space saving, vertical mounting resistors.

• Consumer and industrial applications.

Features :

- Choice of fibre glass or ceramic core.
- Choice of mounting pillars for additional stability.
- Non inductive type available.



HSVA/HSVAU

Power rating : 4W to 17W

Resistance range : R04 to 82K

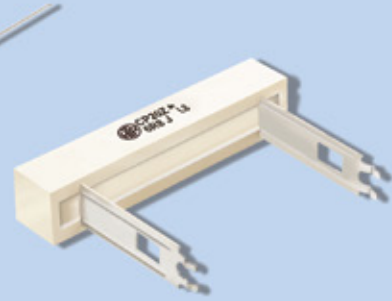
Tolerance available : 1% - 10%

Applications : • Both axial and space saving, vertical mounting resistors.

• Consumer and industrial applications.

Features :

- Choice of fibre glass or ceramic core.
- Dual purpose HSVAU series is an useful inventory reducer for broad line distributor.



HCP

Power rating : 3W to 20W

Resistance range : R10 to 56K

Tolerance available : 3% - 10%

Applications : Commercial and industrial electronics.

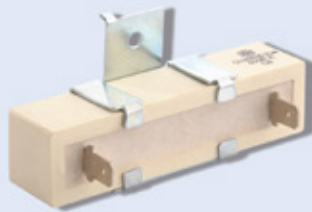
Features :

- Fibre glass and ceramic core available.
- Ceramic encased for high power dissipation.
- PCB pluggable style with different terminations and stand off heights available.



WIRE WOUND RESISTORS

Ceramic Encased



HCL

Power rating : 10W to 40W

Resistance range : R10 to 68K

Tolerance available : 3% - 10%

Applications : Commercial and industrial electronics.

- Features :**
- Fibre glass & ceramic core available.
 - Ceramic encased for high power dissipation.
 - Radial terminations for Amp 187 & Amp 250 connectors available.
 - Available with mounting bracket which also serves as heat sink.



HCV

Power rating : 2.5W to 15W

Resistance range : R04 to 36K

Tolerance available : 3% - 10%

Applications : Industrial and consumer electronics.

- Features :**
- Flat vertical mounting type
 - Ceramic and fibre glass core available.
 - Ceramic legs for greater stability also act as heat sink.
 - Impulsive types available.
 - Non inductive types available.
 - PCB space saving resistor.



HMVL

Alloy Ribbon Element/
Flat Vertical Mounting

Power rating : 2.5W to 15W

Resistance range : R004 to R20

Tolerance available : 0.5% - 5%

Applications : • Current sensing.

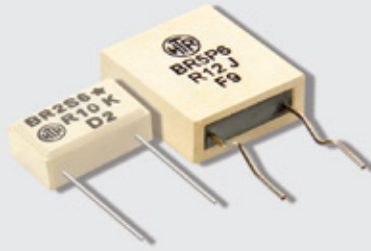
• Industrial and consumer electronics.

Features : • Flat vertical mounting type.

• Negligible inductance.

• Ceramic legs for greater stability
also act as heat sink.

• PCB space saving resistor.



BR

Slim Type, Metal Plate/
Preformed resistance strip

Power rating : 2W to 10W

Resistance range : R01 to 1R8

Tolerance available : 1% - 10%

Applications : • Reduces switching

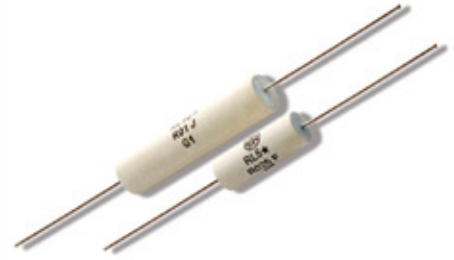
distortion at high frequency.

• Audio amplifier.

Features : • PCB pluggable with option
of various pitch and stand off heights.

• Negligible inductance.

• Twin style available.



RL

Power rating : 0.5W to 10W

Resistance range : R0015 to R80

Tolerance available : 0.5% - 5%

Applications : • Current sensing in applications
which include switching and linear power
supplies, instruments and power amplifiers.

Features : • Alloy ribbon element in cylindrical
ceramic body. • Superior alternative to replace
moulded device of identical size.

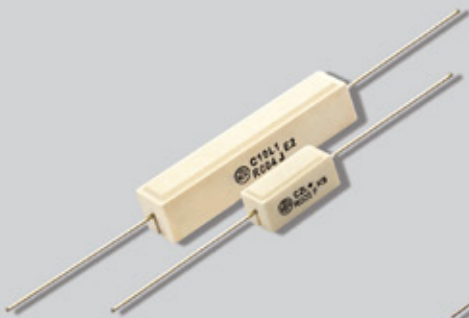
• Negligible inductance.

• Highly thermal efficient power to size ratio.

• Low TCR.

LOW OHM/ CURRENT SENSE SHUNT RESISTORS

Ceramic Encased



HCAL

Power rating : 1W to 20W

Resistance range : R002 to R20

Tolerance available : 0.5% - 5%

Applications : • Current sensing for
industrial and power conditioning
applications.

Features : • Alloy ribbon element
• Ceramic encased for greater heat
dissipation and thermal stability.

• Low TCR.

• Negligible inductance.



HEAL

Power rating : 2.5W to 12W

Resistance range : R0025 to R20

Tolerance available : 0.5% - 5%

Applications : Current sensing for
industrial and power conditioning
applications.

Features : • Alloy ribbon element
in square profile ceramic tube.

• Ceramic encased for greater heat
dissipation and thermal stability.

• Low TCR. • Negligible inductance.



OA

Power rating : 1W to 3W

Resistance range : R003 to R10

Tolerance available : 0.5% to 5%

Applications : Usage in switching, linear power supplies, instruments, regulators and other modern current sensing circuits.

Features :

- Open frame axial type.
- Negligible inductance.
- Low TCR.



OP

Power rating : 0.5W to 5W

Resistance range : R0015 to R10

Tolerance available : 0.5% to 5%

Applications : Usage in switching, linear power supplies, instruments, regulators and other modern current sensing circuits.

Features :

- Open frame PCB mounting radial type.
- Negligible inductance.
- Low TCR.



HEW

Power rating : 1W to 5W

Resistance range : R003 to R10

Tolerance available : 0.5% to 5%

Applications : Usage in switching, linear power supplies, instruments, regulators and other modern current sensing circuits.

Features :

- Open frame PCB mounting radial type.
- Edge welding for reduced PCB footprint.
- Negligible inductance.
- Very low TCR available.



LOW OHM / CURRENT SENSE RESISTORS

Open Frame



OF

Power rating : 1W to 10W

Resistance range : R001 to R10

Tolerance available : 0.5% - 5%

Applications : Usage in switching, linear power supplies, instruments, regulators and other modern current sensing circuits.

Features :

- Open frame PCB mounting radial type.
- Monolithic construction for superior stability.
- Negligible inductance.
- Very low TCR available



OFSC

Power rating : 5W & 10W

Resistance range :

For 5W - R00012 to R002

For 10W - R0004 to R003

Tolerance available : 0.5% - 5%

Applications : Highly accurate current sensing applications in automotive & industrial electronics.

Features :

- Four terminals for highly accurate current sensing applications.
- UL approved flame retardant coating.
- Increased lead diameter for high current handling capability.



HIAS

Power rating : 1W to 5W
Resistance range : R01 to 22K
Tolerances available : 1% - 10%
Applications : Fills the gap for MELF and surface mount resistors in applications which are too severe for film resistors.
Features : • Wire wound with multiple SMD configurations. • UL approved flame retardant coating. • Non inductive types available. • Impulse resistors as per IEC 61000-4-5 • 1W and 2W – MELF type. • Tape & reel packing for pick & place machine.



HCAS/HCALS

Power rating : 2W to 3W
Resistance range : R001 to 5K6
Tolerances available : 1% - 10%
Features : • Wire Wound and Alloy Ribbon element options. • Ceramic encased for greater heat dissipation & thermal stability. • Package size 2W - 4527, 3W - 6927. • Tape and reel packing for pick and place machine. • Fusible type available. • Non inductive type available. • Impulse resistors as per IEC 61000-4-5



HRW

Power rating : 0.6W to 3W
Resistance range : R005 to 13K
Tolerance available : 1% - 10%
Features : • Wire wound and alloy ribbon element options. • Moulded resistor construction. • Package size : 0.6W - 2010, 1W - 2412, 2W - 4527. • Tape and reel packing for pick and place machine. • Fusible type available. • Non inductive type available. • Impulse resistors as per IEC 61000-4-5

SURFACE MOUNT (SMD) RESISTORS



HSVAS/HSVALS

Power rating : 4W & 5W
Resistance range : R003 to 16K
Tolerances available : 1% - 10%
Features : • Wire wound and alloy ribbon element options. • Ceramic encased for greater heat dissipation and thermal stability. • Fusible type available. • Tape and reel packing for pick & place machine. • Non inductive type available. • Impulse resistors as per IEC 61000-4-5

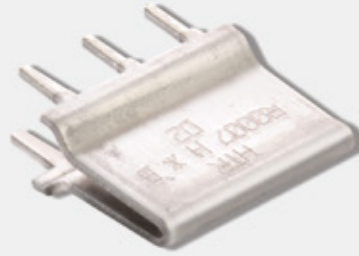


RLS

Power rating : 1.5W to 5W
Resistance range : R0015 to R39
Tolerances available : 0.5% - 5%
Applications : Current sensing in applications which include switching and linear power supplies, instruments and power amplifiers.
Features : • Alloy ribbon element in cylindrical ceramic body. • Superior alternative to replace moulded device of identical size. • Negligible inductance. • Highly thermal efficient power to size ratio. • Any resistance value possible within resistance range given. • Low TCR.



Noise suppressor resistor.
Please refer HANS series in
www.htr-india.com



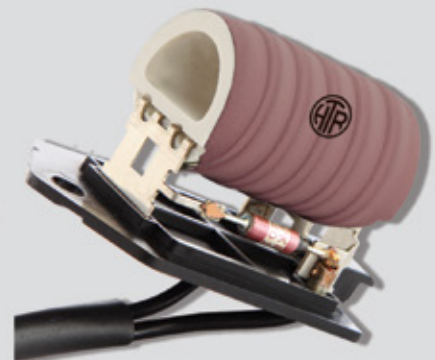
For electronic braking and
steering applications.



For power window applications.



AUTOMOTIVE RESISTIVE DEVICES



Customised resistive devices for engine cooling systems.



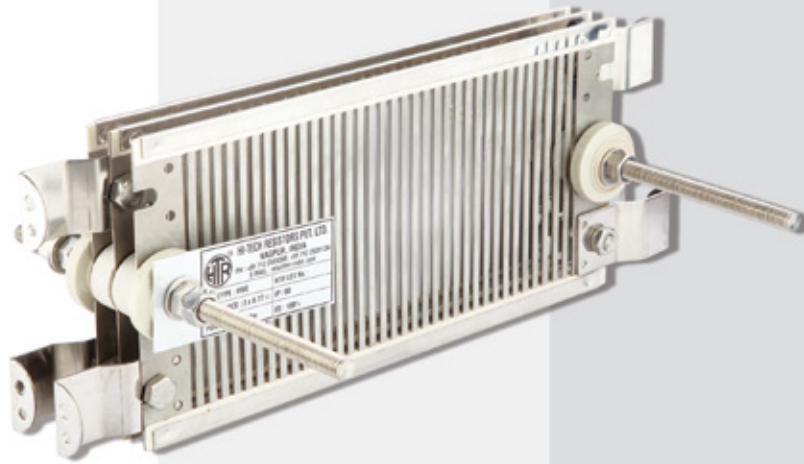
Ceramic type resistors for HVAC application.



**CUSTOMISED
AUTOMOTIVE
RESISTIVE
DEVICES**
HVAC



Coil type resistor for HVAC application.



Customised resistive device for windpower applications.



CUSTOMISED RESISTIVE DEVICES



HTR can customise resistive devices for applications in various industries. Currently devices are being supplied to a large number of customers across the industrial, automotive & consumer electronics sector. Please enquire - info@htr-india.com

Techno-economic Solutions

HTR's credo and often repeated mantra has always been the supply of the right product at the right price for each specific application. To further this endeavour our R&D facility works in tandem with our "Application Engineering Department" to provide a value bundle of "Product, Information and Service" at the optimum price in order to meet our customers' "JIT" requirements.

To reinforce this endeavour, being an ISO/TS 16949:2009 certified company we are one of the first to use the automotive "Product Part Approval Process" methodology for Industrial applications in which quality is "built in at source" from the very inception.



DET NORSKE VERITAS
MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 22919-2008-AQ-IND-IATF
IATF Certificate No.: 0117100
Page 1 of 1

This is to certify that the Management System of:

HI-TECH RESISTORS PVT. LTD.

Plot No. EL-1, MIDC, Hingna Road, Nagpur - 440 016, Maharashtra, India.

Supporting Site Extensions: None

Remote Supporting Functions:

Site Name	Site Address	Site City	Site State	C B	Site Main Activities
Hi-Tech Resistors Pvt. Ltd.	Baty Compound, Moudal Road, Extension, Sakar	Nagpur 440 004	Maharashtra, India	DNV	Marketing

has been found to conform to Technical Specification:

ISO/TS 16949:2009

having been audited in accordance with the:

Rules for the registration scheme for ISO/TS 16949:2009 - 3rd Edition.

This Certificate is valid for the following products/service ranges

**DESIGN, MANUFACTURE OF WIRE WOUND AND LOW
OHM/CURRENT SENSE AND HVAC RESISTORS**
EXCLUSIONS: NONE

Initial Certification date:
12 March 2008

This Certificate is valid until:
09 February 2014

Sandip Palve
Sandip Palve
Lead Auditor



Audit Conducted by DNV Office located in Pune, India

Place and Validity Start date:
Katy, Texas, 10 February 2011

for the Accredited Unit:
DET NORSKE VERITAS
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M. A. Kusko
Michael Kusko
Management Representative

HEAD OFFICE: DET NORSKE VERITAS CERTIFICATION INC., 1400 BAYLOR DRIVE, KATY, TEXAS 77450, TEL: (281) 396-0000, FAX: (281) 396-1903

**Certification :
ISO/TS 16949:2009**

TECHNICAL ASSISTANCE

For detailed information on :

- Datasheet in PDF format of all HTR product series.
- Quality Assurance
- Customer Assurance
- Application/Design notes for selection of Wirewound / Current Sense resistors
- Pulse/Surge capability of Power Resistors
- Explanation of commonly used technical terms
- Caution Notes

Please refer our website www.htr-india.com

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Refer page 16

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