

FIBRE GLASS SUBSTRATE Silicone Coated Wire Wound Resistor Shatter Proof Low Cost Due To Automation

• Especially designed for kitchen appliances sector.

Mechanically Crimped Termination Assembly

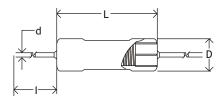
Alloy Resistance Wire wound On Fibre Glass Core

- High positive temperature co-efficient resistors available.
- Available uncoated if required.

APPLICABLE STANDARDS

IS - 8909 and IEC - Pub 266

PHYSICAL CONFIGURATION



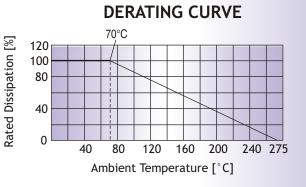
HTR TYPE	POWER RATING	DIMENSIONS (mm)				RESISTANCE RANGE		TYPICAL WT.
	at 70°C	L <u>+</u> 2	D <u>+</u> 0.5	l <u>+</u> 2	d <u>+</u> 0.05	min	max	PER PC (gms)
F-1	1W	13.0	4.5	38	0.8	R05	9K1	1.18
F-2	2W	16.0	4.5	38	0.8	R07	12K	1.20
F-3	3W	18.0	5.2	38	0.8	R10	15K	1.24
F-5	5W	30.0	5.2	38	0.8	R10	27K	1.73
F-7	7W	39.0	5.2	38	0.8	R10	39K	2.03
F-9	9W	45.0	5.2	38	0.8	R10	47K	2.22
F-10	10W	54.0	5.2	38	0.8	R10	51K	2.34

SUDDO

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS / DATA

Flame Retardant Silicone Coating

Test	Performance Requirements
Resistance tolerance	<u>+</u> 10% [K]; <u>+</u> 5% [J]
Rated ambient temperature [see derating curve]	at 70°C full power dissipation
Temperature co-efficient	<u>+</u> 100 ppm/ °C [> 100R] <u>+</u> 80 ppm/ °C [< 100R] <u>+</u> 450 ppm/ °C [< 1R0]
Short time overload	Max R <u>+</u> [2%+R05]
Moisture Resistance	Max R <u>+</u> [5%+R05]
Load life	Max R <u>+</u> [5%+R05]
Ambient operating temperature range.	-40°C to +155°C





TYPICAL APPLICATIONS

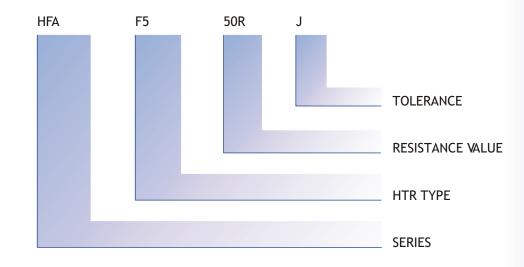
HFA series of resistors were developed to provide a reliable but low cost alternative to the kitchen appliances sector where medium levels of power are required to be dissipated in the confines of a PCB and where close tolerance is not a criteria for selection.

This cost reduction is achieved using a sophisticated automatic plant where the resistance element is uniformly wound onto a fibre glass core which is shatterproof.

Finally the sub-assembly is conformally coated with a special silicone cement coating which cannot drip even at high overloads or left uncoated if required by the customer.

Due to this method of construction, resistors in this series particularly above 7W should be suitably derated (about 35%) and a clearance of say about 5 mm from the PCB be kept if found necessary.

Depending on application the resistors leads may be tin plated Copper Weld[®] instead of tin plated copper.



ORDERING INFORMATION

Note:

- 1) The leads of the resistor can be bent and cut as per requirements for quick PCB mounting. Please send detailed drawings of the type of preforming required.
- 2) Types F1, F2 & F3 can be supplied in taped form. Please refer to tape/ammo pack specifications. Tape/Reel on request.
- The Words "Applicable Standards" do not necessarily signify certification to that standard, however the tests mentioned are carried out on the broad based guidelines set out in these standards.