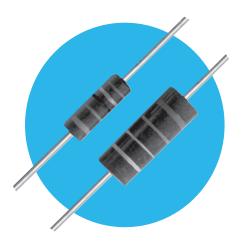
Resistors

Electro

General-Purpose Failsafe Moulded Wirewound Resistors

SPH/SPF Series

- Drop-in replacement for BWH/BWF
- 2 watt rated with 1 watt dimensions
- ±5%, ±10% tolerance
- 0.1 ohm to 2400 ohms
- TCR's as low as ±150 ppm/°C standard (custom TC's available)
- Weldable and solderable leads





	Electrical Data	1				
	Туре		SPH SPH		SPF SPF	
1 Style	EIA RS-344 Style	(CRU2 CRU2		GRU2	1
Style	MIL-R-11 Style	RC	RC32/RC42 3 2/RC42		RC32/RC42 RC32/RC42	Ī
	Resistance - Std.		0.1Ω to 2400Ω		0.1Ω to 1000Ω	ŧ.
e - Std.	Tolerance - Std.	0.1Ω	to 2400Ω ±5%, ±10%		0.1Ω to 1000Ω ±5%, ±10%	1
- Std.	Power Rating	±5°	2 watt @ 70°C 6, ±1 Watto 115°C Derating to 0 @ 160	°C	2 watt @ 70°C +watt @+119°C Derating to 0 @ 160°C	ŀ
ing	Max. Continuous Worki	2 wa ng Voltage 1 wat			2 watt @ 70°C 1 watt @ 115°C	ľ
9	Min. Insulation		to 0 100 100 Meg	D	eratirig [,] ¶0001@ 160	}
nuous V	WirkDing Voltage Withstanding Volts	АТМ	√PR 1000V		1.0 /po/y	
ition	(RMS)	Pressur ę (),	0 00 Meo gr5∨		10, @@ 0/Meg	
Э	Hotspot Temperature R	ise 10)0 ¼gg @ 2 watts		₁₄₅ 1,00,10,00,00	c
etric	Typical Load Cire	_	000V 5%		1000V	ſ
ing Volts Red	Current Noise uced Pressure		Negligible 625V		Negligible 625V].

All resistor types flawe re 1. Resistive Element a braided fiberg All resistor types flave resistance filogra windindretimediateegidiscustreeat Intermediate Filippe certifies stabling to enhance processibility and to provide to enhance processibility and to provide projector decidence by the store of the st 2. Termination The SPH and SPF resistors are terminated using ah app Spate and SPF fastes is terminated

IT electr

lead welstate anality content toppe This termination assembly is mechanically crimped, utilizing an improved crimp design, to the reship termination assembly i crimped, utilizing an improve 3. Encapsulation The SFIP and and SFIP since கொளைய்

lizing a compression molded phenolic plastic material. The SPF has a flame resistance coating applied over the resistive element to provide is an amount to provide is an are er ^{dest}ru**୍ୟା**ଆନଫୁଝା<mark>ଫୋନନ୍ୟଞ୍ଜ</mark>ୋଟନ molded

🖟 μ material. The SPF has a fla All prococating nappelied izoverethence: solventresistant colorcode pands confished prowith EIA/MIL requirements. The first band is counsesticity to be supported and swamp of construction. A fifth band, blue in color, is used for flameproof identification.

General-Purpose Failsafe Moulded Wirewound Resistors

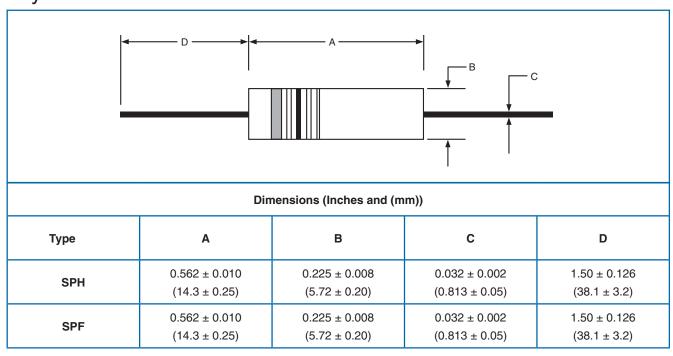




Environmental Data

Test	SPH	SPF
Temperature Coefficient (ppm)*	$0.1\Omega - 0.16\Omega \pm 1000$ $0.18\Omega - 0.68\Omega \pm 800$ $0.75\Omega - 2400\Omega \pm 400$	$0.10\Omega \pm 1700$ $0.11\Omega - 0.16\Omega \pm 1000$ $0.18\Omega - 0.68\Omega \pm 800$ $0.75\Omega - 1000\Omega \pm 400$
Dielectric Withstanding Voltage (RMS)	1000V	1000V
Momentary Overload	5%	5%
Low Temperature Operation	5%	5%
Temperature Cycle	5%	5%
Humidity	5%	5%
Load Life	5%	5%
Terminal Strength	5%	5%
Resistance to Solder Heat	5%	5%
Solderability	No Failures	No Failures

Physical Data

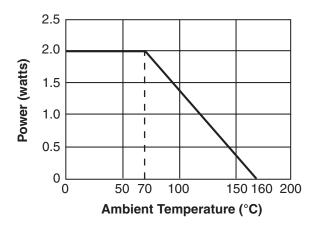


General-Purpose Failsafe Moulded Wirewound Resistors

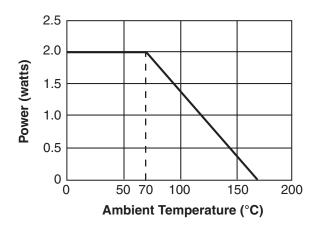
SPH/SPF Series



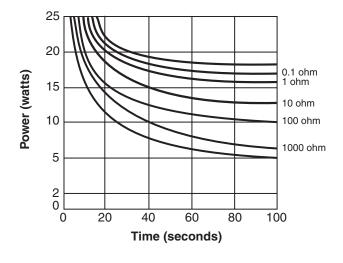
SPH Power Derating Curve



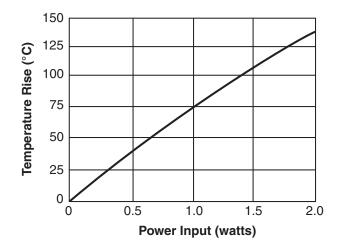
SPF Power Derating Curve



SPF Typical Fusing



SPH and SPF Temperature Rise Chart



www.ttelectronicsresistors.com

General-Purpose Failsafe Moulded Wirewound Resistors





Ordering Procedure

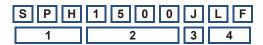
This product has two valid part numbers:

European (Welwyn) Part Number: SPH-150RJI (SPH, 150 ohms ±5%, Pb-free)



1	2	3	4
Type	Value	Tolerance	Packing & Termination Finish
SPH	R = ohms	J = ±5%	I = Standard packing & Pb-free
SPF	K = kilohms	K = ±10%	Tape pack 1250/reel

USA (IRC) Part Number: SPH1500JLF (SPH, 150 ohms ±5%, Pb-free)



1	2	3	4	
Type	Value	Tolerance	Termination Finish	Standard Packing
SPH	3 digits + multiplier	J = ±5%	Omit for SnPb	1250/reel
SPF	R = ohms for	K = ±10%	LF = Pb-free	Tape pitch 0.375" (9.5mm)
	values <100 ohms			Tape to tape 2.875" (73mm) Leads untrimmed

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FW10A33R0JA 25J39K 25J5R0-B 25W1D0 272-303-JBW 280-PRM5-150-RC CP0005270R0JE1491 CPCC0510R00JE32
CPCC051R000JB31 CPW052K500JE143 CPW05700R0JE143 C1010RJL CA000210R00JE14 VPR5F1500 RS02B887R0FE73
RWR74SR604FRB12 RWR84S1001FRB12 RWR84S20R0FSBSL RWR89S6190FSB12 CPW055R000JB143 ULW5-39R0JT075 W31-R047JA1 VP25K-120 VC3D900 ULW5-68RJT075 65888-3R3 CB5JB10R0 CPW151K500JE313 RWR80N3400FSB12
RWR81S1000FRB12 RWR81S1000FSB12 RWR89S6R81FRB12 RWR89N30R1FRB12 RWR81S4R99FPB12