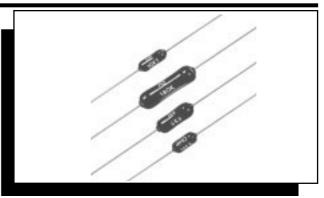
MEGGITT HOLSWORTHY

HYBRID CIRCUITS ELECTRONIC ASSEMBLIES PRECISION RESISTORS SMD PRECISION RESISTORS PRECISION NETWORKS

Axial Leaded Precision Resistors TYPE HOLCO SERIES



The Holco range of Precision Metal Film Resistors meets the requirement for economically priced components for industrial and military applications. The manufacturing facility utilises closely controlled production processes including the sputter coating of metal alloy films to ceramic substrates, and laser spiralling to achieve close tolerance and high stability resistors. An epoxy coating is applied for environmental and mechanical protection. Commercially the Series is available in three case sizes, from 1 ohm to 10M ohms, tolerances from 0.05% to 1% and TCR's from 5ppm/°C to 100ppm/°C. Offered with release to BS CECC 40101 004, 030 and 804 the H8 is available via distributiion.

MEGGITT HOLSWORTHY KEY FEATURES

- ULTRA PRECISION DOWN TO 0.05%
- MATCHED SETS AVAILABLE TO 2ppm°/C
- HIGH PULSE WITHSTAND
- LOW REACTANCE
- LOW TCR DOWN TO 5ppm/°C
- LONG TERM STABILTY
- UP TO 1 WATT AT 70°C

RELEASED TO CECC 40101 004, 030 AND 804



SALES ACTION DESK
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SPECIFICATION		TYPE HOLCO SERIES	(Page 2 of 4)	
ELECTRICAL				
Holco Type Approved Ratings	H2	H4	H8	
BS CECC 40101 004				
Style:	L	K	H J	
Power Rating at 70°C:	0.5W	0.25W	0.063W 0.125W	
Temperature Rise (maximum):	43°C	32°C	14°C 28°C	
Limiting Element Voltage:	350V	250V	150V 200V	
BS CECC 40101 030				
Style:	К	J	Н	
Power Rating at 125°C:	0.25W	0.125W	0.1W	
Temperature Rise (maximum):	30°C	30°C	30°C	
Limiting Element Voltage:	350V	250V	200V	
BS CECC 40101 804				
Style:	С	В	А	
Power Rating at 125°C:	0.5W	0.25W	0.125W	
Limiting Element Voltage:	350V	350V	350V	
Commercial Ratings				
Power Rating at 70°C:	1.0W	0.5W	0.25W	
Temperature Rise:	65°C	55°C	40°C	
Limiting Element Voltage:	350V	300V	250V	
VALUE RANGE TCR(ppm/°C) CODE				
5 A	50R~600K	50R~330K	50R~200K	
10 B	50R~1M0	50R~680K	50R~250K	
15 Y	10R~2M0	10R~1M5	10R~1M0	
25 D	10R~4M0	10R~2M0	10R~1M5	
50 C	1R0~6M0	1R0~4M0	1R0~4M0	
100 Z	1R0~10M	1R0~4M0	1R0~4M0	
STANDARD TOLERANCES (%):	10.05	10.05	10.05	
	1.0, 0.5,	1.0, 0.5,	1.0, 0.5,	
	0.25, 0.1 0.05	0.25, 0.1 0.05	0.25, 0.1 0.05	
	0.05 Tl	he value ranges above may be restricted by tolera	nce	
GENERAL DATA				

LEAD MATERIAL - Solder coated copper. Solderability to BS CECC 40101 004 Para 4.15.1 ENCAPSULATION - Conformal Epoxy Coating RESISTOR MARKING - Legend printed in accordance with CECC 40000 Para 2.4

SOLVENT RESISTANCE - The epoxy coating and print will withstand the action of all commonly used industrial cleansing solvents.

APPROVED VALUE RANGES

40101-004, 40101-030

40101-804

	Styl	e	Z	С	D	Y		Style	С	D	Т
	004	030	100ppm	50ppm	25ppm	15ppm			50ppm	25ppm	15ppm
H2	L	K	10R~10M	49R9~1M0	49R9~1M0	49R9~1M0	ΙΓ	С	49R9~1M0	49R9~1M0	49R9~1M0
H4	Κ	J	10R~1M0	49R9~1M0	49R9~1M0	49R9~1M0		В	49R9~1M0	49R9~1M0	49R9~1M0
H8	H,J	Н	10R~1M0	10R~1M0	49R9~1M0	49R9~1M0		А	49R9~1M0	49R9~1M0	49R9~1M0

SPECIFICATION

TYPE HOLCO SERIES (Page 3 of 4)

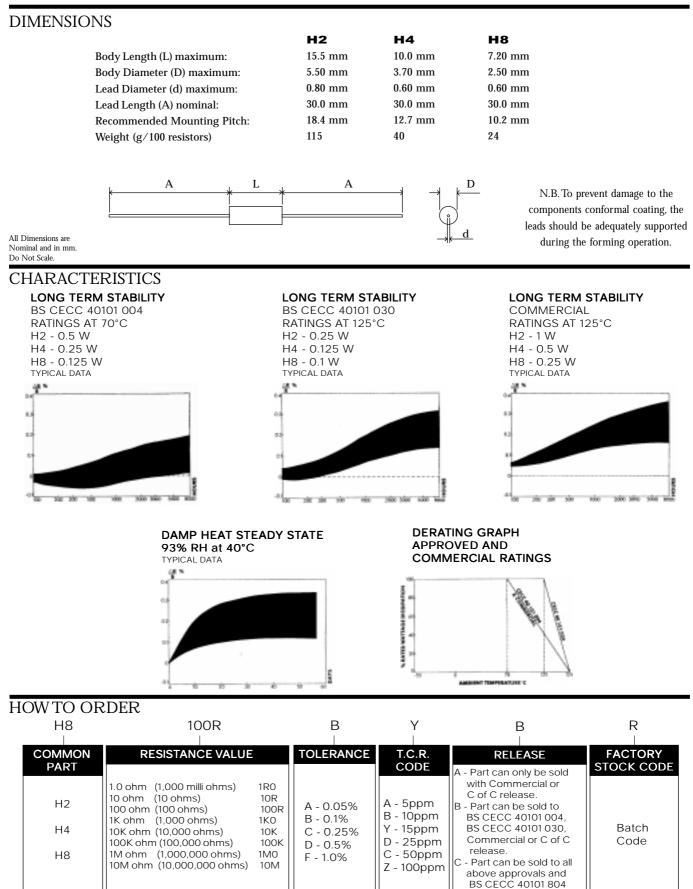
ELECTRIC	CAL	TYPICAL DATA	REFERENCE
RESISTANCE	EFFICIENT OF (BETWEEN 10% ATED VOLTAGE)	LESS THAN 5ppm/VOLT APPLIED	n/a
INSULATION 500 VOLTS	RESISTANCE AT	GREATER THAN 1012 OHMS	n/a
	TO SOLDERING For 10 Seconds)	LESS THAN 0.05%	BS CECC 40101 004 PARA 4.15.2
TIMES RATEI	1 OVERLOAD (6.25 d BS CECC R 5 SECONDS)	LESS THAN 0.06%	BS CECC 40101 004 PARA 4.11
AMBIENT TEN RANGE	MPERATURE	-55°C TO +155°C	BS CECC 40101 004 BS CECC 40101 030 & COMMERCIAL
RAPID CHAN TEMPERATUI 155°C, FIVE C	RE (-55°C TO +	LESS THAN 0.04%	BS CECC 40101 004 PARA 4.16
SHELF LIFE (A TEMPERATU	T NORMAL ROOM RE)	LESS THAN 0.05% PER ANNUM	n/a
).75mm, OR ON 98m/s²WHICH RE, SWEEP DURA-	LESS THAN 0.04%	BS CECC 40101 004 PARA 4.19
VIBRATION (HARMONIC I MUM ACCELE	x5) 55-2000 Hz SIMPLE MOTION, MAXI- ERATION 98m/s², 5±5 MINUTES)	LESS THAN 0.04%	MIL STD 202 Method 204-C
BUMP (390m/s	² , 4000 BUMPS)	LESS THAN 0.03%	BS 2011 PART 2.1 Eb 1977 (1984)
LOAD STABIL	ITY	SEE GRAPHS	n/a
DAMP HEAT S	TEADY STATE	SEE GRAPH	BS CECC 40101 004 PARA 4.21
NOISE PERFC	DRMANCE	BETTER THAN	QUANTECH NOISE TEST
1M0 - 3 3M0 - 6		-15dB -13dB -9dB -5dB	
H4 LESS TH 300K - 4	HAN 300K	-15dB -13dB -9dB	
H8 LESS TH 100K - 4	HAN 100K	-15dB -10dB -5dB	

(0dB IS $1\mu V/V$ OF APPLIED DC IN A DECADE OF FREQUENCY)

SPECIFICATION

TYPE HOLCO SERIES (Pag

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