





FEATURES

- •
- 0.195" [4.95mm] "A", 0.250" [6.35mm] "B", or 0.350" [8.89mm] "C" Profile maximum seated height "A" profile standard in 6 thru 10 pins
- · Highly stable thick film
- Low temperature coefficient (- 55°C to + 125°C) ± 100ppm/°C ٠
- Reduces total assembly costs
- Resistor elements protected by tough epoxy conformal coating ٠
- Wide resistance range
- Available in bag pack or tube pack

STANDAR	STANDARD ELECTRICAL SPECIFICATIONS							
MODEL/ SCHEMATIC	PROFILE	RESISTOR POWER RATING Max. @ 70°C*	$\begin{array}{c} \textbf{RESISTANCE} \\ \textbf{RANGE} \\ \Omega \end{array}$	STANDARD TOLERANCE %	TEMPERATURE COEFFICIENT (- 55°C to + 125°C)	TCR TRACKING (- 55°C to + 125°C)	OPERATING VOLTAGE VDC Max.	
CSC01	A B C	0.20 W 0.22 W 0.28 W	10 - 2.2M	± 2	± 100ppm/°C	± 50ppm/°C	100	
CSC03	A B C	0.30 W 0.37 W 0.50 W	10 - 2.2M	± 2	± 100ppm/°C	± 50ppm/°C	100	
CSC05	A B C	0.25 W 0.28 W 0.35 W	10 - 2.2M	± 2	± 100ppm/°C	± 150ppm/°C	100	

* For resistor power ratings @ + 25°C see derating curves.

• See derating curves for Package Power Rating. Higher power rated "C" Profile available.

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	CSC Series		
Voltage Coefficient of Resistance	V _{eff}	< 50ppm typical		
Dielectric Strength	VAC	200		
Isolation Resistance (03 Schematic)	Ω	> 100M		
Operating Temperature Range	°C	- 55 to + 125		

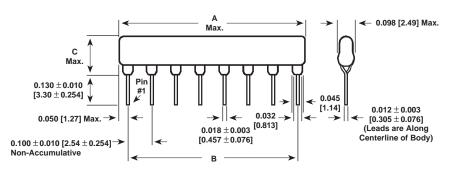
ORDERI	NG INFORMA	TION				
01 and 03 S CSC MODEL	Schematics 08 NUMBER OF PINS	A PACKAGE CODE	01 03 SCHEMAT		101 ISTANCE ALUE	G TOLERANCE
		A = 0.195" [4.95mm] Height 0.100" [2.54mm] Lead Spacing B = 0.250" [6.35mm] Height 0.100" [2.54mm] Lead Spacing C = 0.350" [8.89mm] Height 0.100" [2.54mm] Lead Spacing	01 = Pin #1 common to a resistors 03 = Isolated resistors	III significa Last dig	digits are ant figures. jit specifies of zeros to	G=±2%
05 Schema	tic					
CSC MODEL	08 NUMBER OF PINS	A PACKAGE CODE	05 SCHEMATIC	221 RESISTANCE VALUE R ₁	331 RESISTANCE VALUE R ₂	G TOLERANCE
		A = 0.195" [4.95mm] Height 0.100" [2.54mm] Lead Spacing B = 0.250" [6.35mm] Height 0.100" [2.54mm] Lead Spacing C = 0.350" [8.89mm] Height 0.100" [2.54mm] Lead Spacing		figures. Th	are significant e third digit e number of o follow.	G=±2%



Thick Film Resistor Networks, Single-In-Line, Coated SIP

Vishay Dale

DIMENSIONS in inches [millimeters]



01 Schematic	MODEL	NUMBER OF RESISTORS	A (Maximum)	в	C (Maximum)
	CSC05	4	0.490 [12.45]	0.400 [10.16]	
	CSC06	5	0.590 [14.99]	0.500 [12.70]	
•••	CSC07	6	0.690 [17.53]	0.600 [15.24]	"A" Profile = 0.195 [4.95]
	CSC08	7	0.790 [20.07]	0.700 [17.78]	"B" Profile = 0.250 [6.35]
	CSC09	8	0.890 [22.61]	0.800 [20.32]	"C" Profile = 0.350 [8.89]
1 2 3 n-1 n	CSC10	9	0.990 [25.15]	0.900 [22.86]	
	CSC11*	10	1.09 [27.69]	1.00 [25.40]	
03 Schematic	MODEL	NUMBER OF RESISTORS	A (Maximum)	В	C (Maximum)
	CSC06	3	0.590 [14.99]	0.500 [12.70]	"A" Profile = 0.195 [4.95]
	CSC08	4	0.790 [20.07]	0.700 [17.78]	"B" Profile = 0.250 [6.35]
ბ ბ ბ ბ 1 2 3 4 n−1 n	CSC10	5	0.990 [25.15]	0.900 [22.86]	"C" Profile = 0.350 [8.89]
05 Schematic	MODEL	NUMBER OF RESISTORS	A (Maximum)	В	C (Maximum)
	CSC05	6	0.490 [12.45]	0.400 [10.16]	
	CSC06	8	0.590 [14.99]	0.500 [12.70]	
	CSC07	10	0.690 [17.53]	0.600 [15.24]	"A" Profile = 0.195 [4.95]
	CSC08	12	0.790 [20.07]	0.700 [17.78]	"B" Profile = 0.250 [6.35]
	CSC09	14	0.890 [22.61]	0.800 [20.32]	"C" Profile = 0.350 [8.89]
1 2 3 n-1 n	CSC10	16	0.990 [25.15]	0.900 [22.86]	
	CSC11*	18	1.09 [27.69]	1.00 [25.40]	

* "B" and "C" Profiles only.

MECHANICAL SPECIFICATIONS				
Marking Resistance to Solvents:	Permanency testing per MIL-STD- 202, Method 215.			
Solderability:	Per MIL-STD-202, Method 208E, RMA flux.			
Body:	High alumina, epoxy coated.			
Terminals:	Copper alloy, tin-lead plated.			

STOCKED RESISTANCE VALUES IN OHMS ("G" TOLERANCE)

Standard E-24 resistance values stocked. Consult factory.

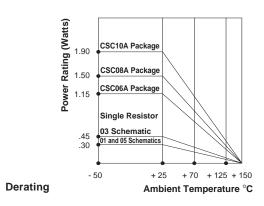
Many dual terminator resistance values stocked. Consult factory

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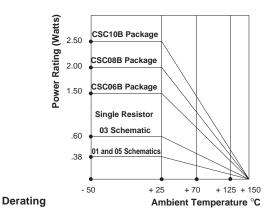


"A" Profile



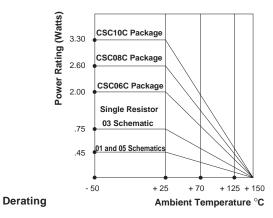
"A" PROFILE + 70°C PACKAGE RATINGS				
CSC10A	1.25 watts			
CSC09A	1.12 watts			
CSC08A	1.00 watts			
CSC07A	0.87 watts			
CSC06A	0.75 watts			
CSC05A	0.62 watts			

"B" Profile



"B" PROFILE + 70°C PACKAGE RATINGS				
CSC11B	1.75 watts			
CSC10B	1.60 watts			
CSC09B	1.45 watts			
CSC08B	1.30 watts			
CSC07B	1.15 watts			
CSC06B	1.00 watts			
CSC05B	0.80 watts			
CSC04B	0.60 watts			

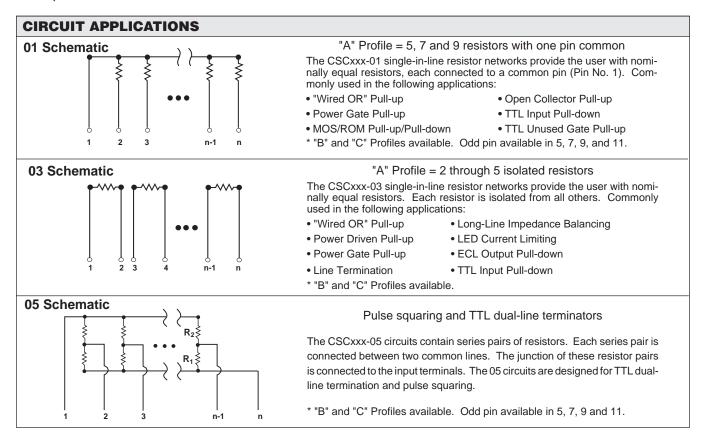
"C" Profile



"C" PROFILE + 70°C I	PACKAGE RATINGS
CSC11C	2.30 watts
CSC10C	2.12 watts
CSC09C	1.90 watts
CSC08C	1.70 watts
CSC07C	1.50 watts
CSC06C	1.30 watts
CSC05C	1.00 watts
CSC04C	0.79 watts



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PERFORMANCE				
TEST	CONDITIONS	MAX. ΔR (Typical Test Lots)		
Thermal Shock	5 cycles between - 65°C and + 125°C	± 0.50% ΔR		
Short Time Overload	2.5 x rated working voltage, 5 seconds	± 0.25% ΔR		
Low Temperature Operation	45 minutes at full rated working voltage at - 65°C	± 0.25% ΔR		
Moisture Resistance	240 hours with humidity ranging from 80% RH to 98% RH	± 1.00% ΔR		
Resistance to Soldering Heat	Leads immersed in + 350°C solder to within 1/16" of body for 3 seconds	± 0.25% ΔR		
Shock	Total of 18 shocks at 100 G's	± 0.25% ΔR		
Vibration	12 hours at maximum of 20 G's between 10 and 2,000 Hz	± 0.25% ΔR		
Load Life	1,000 hours at + 70°C, rated power applied 1.5 hours "ON", 0.5 hour "OFF" for full 1000 hour period. Derated according to the curve.	± 1.00% ΔR		
Terminal Strength	4.5 pound pull for 30 seconds	± 0.25% ΔR		
Insulation Resistance	10,000 Megohm (minimum)	_		
Dielectric Withstanding Voltage	No evidence of arcing or damage (200 V RMS for 1 minute)	_		