

TCR Conductive Polymer SMD Professional Series



AVX



Online Datasheet Link

www.avx.com/docs/Catalogs/tcr.pdf

Or visit: www.avx.com

Scan Code for
Datasheet



Or visit: www.avx.com

Basic Overview

- Conductive polymer electrode reduces ignition failure mode
- Robust design for long operation lifetime
- AVX maverick part control Q-Process with statistical screening
- Improved basic reliability 0.5%/1000hours
- 85° C/85r.h. 120 hours
- -55 to +105° C operation temperature
- DCL limits 0.1CV (on selected codes down to 0.05CV)

Positioning

Telecommunications, Industrial, Avionics

Applications

Long life time DC/DC converters

Unique Features

Dedicated to long life time DC/DC converter applications in Telecommunications, Industrial and Avionics. Next generation of statistical screening and process control enhancement for professional applications with improved reliability. Q-Process to effectively remove components that may experience excessive parametric shifts or instability in operation life. Better mechanical robustness compare to MLCC, no piezo effect and stable electrical parameters, SMD technology.

Top Selling Points

- Tantalum polymer 85° C/85r.h. 120 hours
- Q-Process electrical screening
- SMD = small size, pick & place ready
- Wide temperature range -55/+105° C
- 3xreflow 260°C & RoHS Compatible
- Lead free termination finish

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How to Order

HOW TO ORDER

TCR	D	476	M	016	#	0070	J
Type	Case Size See table above	Capacitance Code pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	Tolerance M = $\pm 20\%$	Rated DC Voltage 010 = 10Vdc 016 = 16Vdc	Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel H = Tin Lead 7" Reel (contact manufacturer) K = Tin Lead 13" Reel (contact manufacturer)	ESR in m Ω	DCL J = 0.1CV G = 0.05CV* * selected codes

Series Cross

AVX Series	Competitor	Competitor Series
TCR	Kemet	T591

FAQ's

Q: What is AVX Q-Process?

A: Statistical screening (using AVX algorithm to determine an accurate sigma for a non-normal population) both pre and post burn-in is effective in removing parts that may have long term reliability issues in the field

Q: What is the basic reliability of TCR Series?

A: 0.5%/1000 hrs @ 120 hrs with 85° C / 85% RH load

Contact Information

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