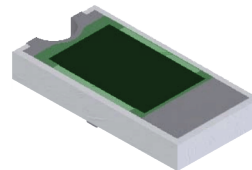


### TVC1206CT-50R0JN-96 Features:

- Solderable Terminals
- RoHS Compliant
- Customer Defined Testing Available
- High Rated Power
- ±5% Resistor Tolerance
- Tape & Reel and Waffle Pack Available (Standard is Bulk)

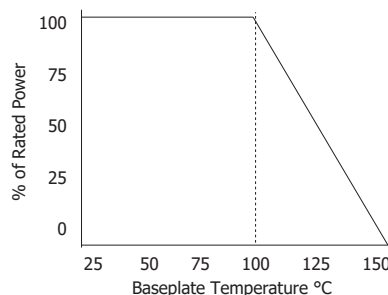


### TVC1206CT-50R0JN-96 Parameters:

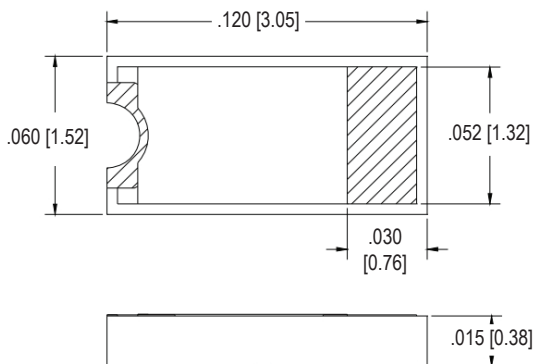
Operating Frequency:	DC - 5GHz								
Rated Power:	24W*								
Return Loss (Typical)**:	<table border="0"> <tr> <td>21.5dB or Better</td> <td>(DC - 4GHz)</td> </tr> <tr> <td>19dB or Better</td> <td>(&gt;4 - 5GHz)</td> </tr> <tr> <td>16dB or Better</td> <td>(&gt;5 - 6GHz)</td> </tr> <tr> <td>11.5dB or Better</td> <td>(&gt;6 - 8GHz)</td> </tr> </table>	21.5dB or Better	(DC - 4GHz)	19dB or Better	(>4 - 5GHz)	16dB or Better	(>5 - 6GHz)	11.5dB or Better	(>6 - 8GHz)
21.5dB or Better	(DC - 4GHz)								
19dB or Better	(>4 - 5GHz)								
16dB or Better	(>5 - 6GHz)								
11.5dB or Better	(>6 - 8GHz)								
Impedance:	50Ω*** (47.5Ω Min., 52.5Ω Max.)								
Resistor Construction:	Thick Film on BeO								
Operating Temperature:	-55 to +150°C								

\* Rating based on ≤100°C constant baseplate temperature  
 \*\* In a matched, continuous 50Ω system with proper workmanship  
 \*\*\* Other values and tolerances available. Contact factory.

### TVC1206CT-50R0JN-96 Power Derating Curve



### TVC1206CT-50R0JN-96 Dimensions:



Dimensions in inches [mm]  
 Tolerance is ± 0.005 [0.13] unless otherwise stated

### Ordering Information:

TVC	1206	CT -	50R0	J	N	-	96	JN	UU
Prefix for Chip Termination w/ Castellations					Normal Inspection Contact factory for additional options				
Size 1206			Impedance Value Code 50R0 - 50Ω	Tolerance J - 5%		Substrate 96 - 0.015" BeO			Packaging Blank - Bulk TR - Tape & Reel WP - Waffle Pack
Terminal Metallization		RoHS	Magnetic	Solder	Epoxy	Wirebond			
CT - Matte Tin over Nickel over Silver		Yes	Yes	Yes	No	No			

Barry Industries reserves the right to change part number and/or process without notification.

ORIG.	REV.	No.
APR 12 2023	APR 24 2023	A
PAGE 1 OF 2		

## TVC1206CT-50R0JN-96 Reliability Specifications:

Parameter:	Test Condition:	Results:
Short Time Overload	Apply 1.1x Rated Power for 5 Seconds.	≤ 5.0% Resistance Shift
Rated Load Life	Apply 1/2 Power Under 40°C ±2°C 90 Minutes on/ 30 Minutes off. Repeat for 100 hours	≤ 5.0% Resistance Shift
Moisture Resistance	MIL-PRF-55342 para 4.8.9 95% RH, 25°C - 65°C	≤ 5.0% Resistance Shift
Resistance to Soldering Heat	MIL-STD-202 Method 210 and MIL-PRF-55342 Para 4.8.8.1	≤ 5.0% Resistance Shift
Solderability	MIL-PRF-55342 Para 4.8.12	>95% Covered
High Temperature Storage	125°C ±2°C for 500 Hours	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)
Thermal Shock	-65°C to +150°C 30 Minutes Dwell, 5 Cycles	1.) ≤ 5.0% Resistance Shift 2.) No Significant Abnormality (Visual)

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