
















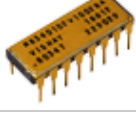


























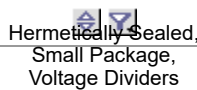











































Series	I-Button	Product Image	Function	Type	Description	Mounting	Min. Tolerance (%)	TCR (ppm/C)	Resistance (min) (ohm)	Resistance (max) (ohm)
1202	 Datasheet 		Resistors	Trimmers	Precision Trimming Potentiometers, 1-1/4 Inch Rectilinear RJ12 Style, Multi Turn	Through Hole	5	10.0	2	20K
1240	 Datasheet  POP9		Resistors	Trimmers	Precision Trimming Potentiometers, 1/4 Inch Square RJ26 Style, Multi Turn	Through Hole	5	10.0	5	10K
1242	 Datasheet 		Resistors	Trimmers	Precision Trimming Potentiometers QPL, 1/4 Inch Square, Qualified to MIL-PRF-22097, Char. F, RJ26, Multi Turn	Through Hole	10	10.0	50	5K
1260	 Datasheet 		Resistors	Trimmers	Precision Trimming Potentiometers, 3/8 Inch Square RJ24 Style, Multi Turn	Through Hole	5	10.0	5	10K
1280G & 1285G	 Datasheet 		Resistors	Trimmers	Precision Trimming Potentiometer, 3/4 Inch Rectilinear, Multi Turn	Through Hole	5 10	5.0 15.0	10	20K
1445Q & 1446Q	 Datasheet 		Networks	Resistor Networks	PRND Networks Qualified to MIL-PRF 83401 Characteristic "c" Schematic A	Through Hole	0.1	5.0	100	10K
300144 & 300145	 Datasheet 		Networks	Resistor Networks, Divider	High Precision Voltage Divider Resistors	Through Hole	0.005	2.0	100	20K
300144Z & 300145Z (Z-Foil)	 Datasheet 		Networks	Resistor Networks	Ultra High Precision Z-Foil Voltage Divider Resistors	Through Hole	0.005	0.05	100	20K
300190 - 300199 & 300210 - 300212	 Datasheet 		Networks	Resistor Networks, Divider	Molded Resistor Networks 2R, 3R, 4R Voltage Dividers Bridge Circuits Attenuators	Through Hole	0.005	2.0	1	150K
303143, 303143L	 Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Fixed Resistor Z-Foil Z201, Screen/Test Flow as modified from S-311-P813 Proposed by NASA	Through Hole	0.005	0.05	10	100K
AUR Series	 Datasheet 		Resistors	Resistors, Fixed	Through-Hole Bulk Metal with Low Profile Conformally Coated for Audio Applications with TCR Down to 0.05 ppm/C, Low Harmonic Distortion, and Noise Stabilization	Through Hole	0.01	0.05	5R	120K
Burden Resistor (Through-Hole Version)	 Datasheet 		Resistors	Resistors, Fixed	High Precision Bulk Metal Foil Burden Resistor	Through Hole	0.005	5.5 3.4	1	500
Custom Networks, 2-, 3- or 4- Resistors (Z Foil Technology)	 Datasheet 		Networks	Resistor Networks, Divider	Ultra High Precision Z Foil Voltage Divider and Network Resistor with TCR Tracking to 0.1 ppm/°C and Resistance Match to ±0.005% (50 ppm)	Through Hole	0.005	0.05	1	100K

Series	I-Button	Product Image	Function	Type	Description	Mounting	Min. Tolerance (%)	TCR (ppm/C)	Resistance (min) (ohm)	Resistance (max) (ohm)
DIP: 1442, 1445, 1446			Networks	Resistor Networks	Ceramic Dual In Line Package	Through Hole	0.005	2.0	5	80K
DIP: 1457			Networks	Resistor Networks	Ceramic Dual In Line Package	Through Hole	0.005	2.0	5	80K
DIP: 1460			Networks	Resistor Networks	Ceramic Dual In Line Package	Through Hole	0.005	2.0	5	80K
E102			Resistors	Resistors, Fixed	High Performance Aerospace and Instrumentation Resistors, High Ohmic Value, Small Size	Through Hole	0.005	2.0	150K	300K
E102Z			Resistors	Resistors, Fixed	Ultra High Precision Bulk Metal® Z-Foil Extended Value Range Resistor, with TCR of 0.2 ppm/ ° C, PCR of 5 ppm Rated Power, Tolerance to 0.005 %, and Power Rated at 0.6 W	Through Hole	0.005	2.0	150K	300K
FSR			Resistors	Resistors, Fixed	Bulk Metal® Foil Resistor Standard with TCR of 0.3 ppm/ °C, High Stability and Accuracy for Laboratory Calibration Standards Direct Plug-In Device for Most DMM'S Available in the Market	Through Hole	0.005	0.3	1	150K
H-Series (VHA Series & VHP202)			Resistors	Resistors, Fixed	H Series - Oil Filled Hermetically Sealed Ultra Precision	Through Hole	0.001	2.0	5	150K
										1M84
										335K
										500K
										668K
										835K
										1M
										1M17
										1M34
1M5										
1M67										
HZ Series (Z-Foil) with Zero TCR			Resistors	Resistors, Fixed	Hermetically sealed Ultra High Precision Z-Foil Technology Resistors	Through Hole	0.001	0.05	5	1.1M
										100K
										200K
										300K
										400K
										500K
										600K
										700K
										800K
										900K
1.0M										

Series	I-Button	Product Image	Function	Type	Description	Mounting	Min. Tolerance (%)	TCR (ppm/C)	Resistance (min) (ohm)	Resistance (max) (ohm)	
PRND EEE	 Datasheet 		Networks	Resistor Networks	Custom Hermetically Sealed Precision Resistor Network Devices (PRND) With Screen/Test Flow in Compliance with EEE-INST-002 (Tables 2A and 3A, Film/Foil, Level 1) and MIL-PRF-83401	Through Hole	0.005	2.0	5	60K	
PRND HT	 Datasheet 		Networks	Resistor Networks	Custom Hermetically Sealed Precision Resistor Network Devices For High Temperature (PRND) With Screen/Test Flow in Compliance with EEE-INST-002 (Tables 2A and 3A, Film/Foil, Level 1) and MIL-PRF-83401	Through Hole	0.01	2.5	5	60K	
RCK -Series (RCK02 series, RCK04 series, RCK05 Series & RCK06 Series)	 Datasheet 		Resistors	Resistors, Fixed	RCK Series - High Performance Aerospace and Instrumentation Resistors	Through Hole	0.005	2.0	0.5	1M	
										1	150K
											500K
											750K
RNC90Z, RNC90Y, Z555 & S555	 Datasheet 		Resistors	Resistors, Fixed	High Precision Resistor Produced in QPL Product Line	Through Hole	0.005	0.05	4.99	121K	
							5.0	100			
							0.01	1			
							0.005	2.0		150K	
RS92N/AN	 Datasheet 		Resistors	Resistors, Fixed	High Precision Foil Resistor	Through Hole	0.005	2.0	80.6	120K	
RTD Simulator	 Datasheet 		Resistors	Resistors, Fixed	Handy Resistor Simulates RTD Temperature Outputs, such as PT-100 and PT-1000	Through Hole	0.005	6.5	10	5K	
S-Series (S102 series, S104 series, S105 Series & S106 Series)	 Datasheet POP9		Resistors	Resistors, Fixed	S Series - High Performance Aerospace and Instrumentation Resistors	Through Hole	0.005	2.0	0.5	1M	
										1	150K
											500K
											750K
										0.5	1M
										1	100K
									300K		
									500K		
									600K		
TO: 1401	 Datasheet 		Networks	Resistor Networks	Glass to Metal Seal Headers	Through Hole	0.005	2.0	5	80K	
TO: 1403	 Datasheet 		Networks	Resistor Networks	Glass to Metal Seal Headers	Through Hole	0.005	2.0	5	80K	
TO: 1413	 Datasheet 		Networks	Resistor Networks	Glass to Metal Seal Headers	Through Hole	0.005	2.0	5	80K	
TO: 1417	 Datasheet 		Networks	Resistor Networks	Glass to Metal Seal Headers	Through Hole	0.005	2.0	5	80K	

Series	I-Button	Product Image	Function	Type	Description	Mounting	Min. Tolerance (%)	TCR (ppm/C)	Resistance (min) (ohm)	Resistance (max) (ohm)
TO: 1419			Networks	Resistor Networks	Glass to Metal Seal Headers	Through Hole	0.005	2.0	5	80K
TO: 1421			Networks	Resistor Networks	Glass to Metal Seal Headers	Through Hole	0.005	2.0	5	80K
TO: 1422			Networks	Resistor Networks	Glass to Metal Seal Headers	Through Hole	0.005	2.0	5	80K
VAR (Z-Foil)	 POP9		Resistors	Resistors, Fixed	Ultra High Precision High Resolution Z-Foil Audio Resistor	Through Hole	0.01	0.05	10	100K
VCS101, VCS401 & VCS103			Resistors	Resistors, Fixed	Precision, Low Value, Current Sense, Shunt Resistors, 4 Lead Kelvin Connected Devices	Through Hole	0.1	15.0	0.005	0.25
VCS201, VCS202			Resistors	Resistors, Fixed	Bulk Metal Foil Technology Conformally Coated Precision Current Sensing Resistors	Through Hole	0.1	10.0	0.005	0.2
VCS232			Resistors	Resistors, Fixed	Ultra High Precision Foil Power Current Sensing Resistor	Through Hole	0.02	2.0	0.2	500
VCS232Z			Resistors	Resistors, Fixed	Ultra High Precision Z-Foil Power Current Sensing Resistor	Through Hole	0.02	0.05	0.25	500
VCS301, VCS302			Resistors	Resistors, Fixed	High Precision 4-Terminal Power Current Sensing Resistors	Through Hole	0.5	3.0	0.005	0.25
VCS331, VCS332			Resistors	Resistors, Fixed	Bulk Metal Foil High Precision 4-Terminal Power Current Sensing Resistors	Through Hole	0.1	1.0	0.25	500
VCS331Z, VCS332Z, VFP4Z, CSNG			Resistors	Resistors, Fixed	New Generation Of Power Current Sense Resistors	Through Hole	0.01	0.05	0.25 0.005	500
VFD244			Networks	Resistor Networks, Divider	High Precision Voltage Divider Resistor	Through Hole	0.005	2.0	1	150K
VFD244Z (Z-Foil)			Networks	Resistor Networks, Divider	Ultra High Precision Voltage Divider Resistor	Through Hole	0.005	0.2	1	100K
VFP3, VFP4			Resistors	Resistors, Fixed	Hermetically Sealed and Molded Power and Current Sensing Resistors	Through Hole	0.01	2.0	0.05	80K
VH102Z (Z-Foil) & VHZ555 (Z-Foil)			Resistors	Resistors, Fixed	Hermetic Version of the Molded "Z" Series Devices	Through Hole	0.005	0.2	4.99 10	121K 100K

Series	I-Button	Product Image	Function	Type	Description	Mounting	Min. Tolerance (%)	TCR (ppm/C)	Resistance (min) (ohm)	Resistance (max) (ohm)	
VHD144 & VHD200	 Datasheet 		 Networks	 Resistor Networks, Divider	 Hermetically Sealed, Small Package, Voltage Dividers	 Through Hole	 0.005	 2.0	 100	 20K	
VHP100, VHP101, VHP102 & VHP103	 Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Hermetically Sealed Resistor with Almost Zero TCR	Through Hole	0.005	0.05	100	150K	
VHP203 (Z-Foil)	 Datasheet 		Resistors	Resistors, Fixed	Hermetically Sealed Miniature Ultra High Precision Z-Foil Technology Resistors with TCR of 0.05 ppm/° C, Tolerance of ± 0.001 % and Load Life Stability of ± 0.005 %, Unaffected by Humidity	Through Hole	0.001	0.05	5	100K	
VHP3, VHP4, VPR247	 Datasheet 		Resistors	Resistors, Fixed	Hermetically Sealed and Molded Power and Current Sensing Resistors	Through Hole	0.01	2.0	0.05	80K	
VHP4Z & VPR247Z	 Datasheet 		Resistors	Resistors, Fixed	High Precision Power Current Sense Resistors Z-based	Through Hole	0.01	0.05	0.25	500	
VHS102, VH102K and VHS555	 Datasheet 		Resistors	Resistors, Fixed	Hermetically Sealed High Precision Resistor Produced in QPL Product Line	Through Hole	0.005	1.0	1	150K	
								2.0			
VPR220 & VPR221	 Datasheet 		Resistors	Resistors, Fixed	Precision Foil Power Resistors in TO-220 Configuration, 4 Lead Kelvin Connected Device - Highly Recommended for Precision Applications ≤ 100 Ω	Through Hole	0.01	2.0	0.5	10K	
											500
										5	10K
VPR220Z (Z Foil)	 Datasheet 		Resistors	Resistors, Fixed	High Precision Power Current Sense Resistors Z-based	Through Hole	0.01	0.05	5	10K	
VPR221Z (Z-Foil)	 Datasheet 		Resistors	Resistors, Fixed		Through Hole	0.01	0.05	0.5	500	
VPR5 & VPR7	 Datasheet 		Resistors	Resistors, Fixed	Current Sensing Resistors (Direct Replacement for Certain Wirewounds)	Through Hole	0.01	5.0	1	100K	
								2.0			
VPR5Z & VPR7Z	 Datasheet 		Resistors	Resistors, Fixed	Current Sensing Resistors (Direct Replacement for Certain Wirewounds)	Through Hole	0.01	2.0	5	100K	
									1		
VRM 6.35mm x 25.4mm	 Datasheet 		Resistors	Resistors, Fixed	Industrial Miniature Precision Resistor	Through Hole	0.01	4.0	5	30K	
VSA101	 Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Axial Z-Foil Resistor with TCR of ± 0.05 ppm/° C, PCR of 5 ppm at Rated Power, Tolerance of ± 0.005 % and Load Life Stability of ± 0.005 %	Through Hole	0.005	0.05	10	100K	

Series	I-Button	Product Image	Function	Type	Description	Mounting	Min. Tolerance (%)	TCR (ppm/C)	Resistance (min) (ohm)	Resistance (max) (ohm)																							
VSH, VSC	Datasheet 		Resistors	Resistors, Fixed	Low Profile Conformally Coated High Precision Resistor	Through Hole	0.01	2.0	5	120K																							
VSH144	Datasheet 		Networks	Resistor Networks, Divider	Low Profile Conformally Coated High Precision Voltage Divider Resistor	Through Hole	0.01	2.0	100	20K																							
VSH144Z (Z-Foil)	Datasheet 		Networks	Resistor Networks, Divider	Ultra High Precision Low Profile Conformally Coated Voltage Divider Resistor	Through Hole	0.01	0.2	100	20K																							
VSHZ, VSCZ (Z-Foil)	Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Z-Bulk Metal Foil Technology	Through Hole	0.01	0.2	5	120k																							
VSR, VSRJ	Datasheet 		Resistors	Resistors, Fixed	VSR Series - Industrial Precision Resistors	Through Hole	0.01	4.0	1	100K																							
									100K	150K																							
									1	200K																							
									200K	500K																							
									1	400K																							
									400K	750K																							
									0.5	400K																							
400K	1M																																
VSR144	Datasheet 		Networks	Resistor Networks, Divider	Industrial Grade Miniature Voltage Divider	Through Hole	0.05	4.0	100	20K																							
VTA & VMT Series (VTA52, 53, 54, 55 & 56, VMTA55 & VMTB60)	Datasheet 		Resistors	Resistors, Fixed	Tubular Axial Lead Resistors, Meets or Exceeds MIL-R-39005 Requirements (5 Ω to 500KΩ)	Through Hole	0.01	4.0	5	500K 300K 150K 30K 60K																							
VTA52Z through VTA57Z, VMTA55Z, VMTB60Z (Z-Foil)	Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Bulk Metal Z-Foil Technology Tubular Axial Lead Resistors	Through Hole	0.01	0.05	5	30K 100k 200k 300k 60k																							
Z-Series (Z201 series, Z204 series, Z205 Series & Z206 Series)	Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Z-Foil Resistor with TCR of ± 0.05 ppm/°C	Through Hole	0.005	0.0050	10	600K 100K 200K 300K 600K																							
Z201HT Through-Hole Resistors	Datasheet 		Resistors	Resistors, Fixed	Ultra High-Precision Through-Hole Foil Resistor for High Temperature Applications up to +200°C	Through Hole	0.01	0.2		10	100K																						
												Z202 (Z-Foil)	Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Molded Resistor - Miniature version of Z201 resistor	Through Hole	0.01	0.05	5	30K											
																							Z203 (Z1-Foil)	Datasheet 		Resistors	Resistors, Fixed	Ultra High Precision Z1-Foil resistor for Metrology and Laboratory Applications	Through Hole	0.005	0.5	10	100K