



**THE DATASHEET OF  
MI0603J680R-10**



## Board Level Products

HI2220P601R-10 (Part number example in **BOLD**)

HI	2220	P	601	R	-10
Product Series Code	Part Size Code	Rated Continuous Current Code	Impedance ( Z ) or Inductance ( L ) Value Code	Packaging Code	Additional Description
<b>HI</b> = High Current Chip Beads (≥3,000 mA)	0402	<b>A</b> ≤ 100 mA	First two numbers are Significant Digits. The last number indicates how many zeros are added to the significant digits for impedance.	<b>B</b> = Bulk Standard Thru-Hole Packaging	<b>00</b> = Legacy Part Contains Lead
<b>MI</b> = Mid Current Chip Beads (≥1,000 mA to <3,000 mA)	0603	<b>B</b> = 200 mA	Impedance Examples  100 = 10 OHMS 101 = 100 OHMS 102 = 1,000 OHMS 202 = 2,000 OHMS 060 = 6 OHMS 600 = 60 OHMS <b>601 = 600 OHMS</b>	<b>R</b> = <b>Tape &amp; Reel</b> Standard SMT Package	<b>-10</b> = <b>Lead Free Standard Catalog Part</b>
<b>LI</b> = Low Current Chip Beads (<1,000 mA, <400 W Z)	0805	<b>C</b> = 300 mA			
<b>HZ</b> = High Impedance Chip Beads (<1,000 mA, ≥400 W Z)	1206	<b>D</b> = 400 mA			
<b>HF</b> = High Frequency Chip Beads	1210	<b>E</b> = 500 mA			
<b>LF</b> = Low Frequency Chip Beads	1612	<b>F</b> = 600 mA			
<b>HR</b> = High Bias Retention Chip Beads (>3,000 mA)	1806	<b>G</b> = 700 mA			
<b>CC</b> = CAN-Bus Common Mode	1812	<b>H</b> = 800 mA			
<b>CM</b> = Common Mode	1922	<b>I</b> = 900 mA			
<b>DI</b> = Power Inductor	2021	<b>J</b> = 1,000 mA			
<b>DA</b> = Multiline Array Chip	<b>2220</b>	<b>K</b> = 1,500 mA			
<b>IC</b> = Chip Inductor	2520	<b>L</b> = 2,000 mA	Inductance Examples  470 = 47 nH 471 = 470 nH 472 = 4,700 nH 473 = 47,000 nH 474 = 470,000 nH 475 = 4,700,000 nH		
	2545	<b>M</b> = 2,500 mA			
	2722	<b>N</b> = 3,000 mA			
	3032	<b>O</b> = 3,500 mA			
	3312	<b>P</b> = <b>4,000 mA</b>			
	3322	<b>Q</b> = 4,500 mA			
	3421	<b>R</b> = 5,000 mA			
	3822	<b>S</b> = 5,500 mA			
	4545	<b>T</b> = 6,000 mA			
	4732	<b>U</b> = 7,000 mA			
	5022	<b>V</b> = 8,000 mA			
	5441	<b>W</b> = 9,000 mA			
	6032	<b>X</b> = 10,000 mA			
		<b>Y</b> = 15,000 mA			
		<b>Z</b> ≥ 20,000 mA			

29F0818-1SR-10 (Part number example in **BOLD**)

29	F	0818	-1	S	R	-10
Material Type	Product Type Code	Part Size Code	Minor Dimension Code	Board Mounting Style	Packaging Code	Additional Part Description
<b>28 &amp; 29</b> = Broad Band Material	<b>C</b> = Choke	Unique Part Identifier or Significant Dimension	Height or Length Variation	<b>S</b> = <b>Surface Mount</b> <b>T</b> = Thru-Hole	<b>O</b> = Bulk Standard  <b>R</b> = <b>Tape &amp; Reel</b> Standard SMT Package	<b>-10</b> = <b>Lead Free Standard Catalog Part</b>
<b>35</b> = Low Frequency Material	<b>L</b> = Axial Ledged Bead					
	<b>F</b> = <b>Assembled Part</b>					
	<b>J</b> = Radial Ledged Bead					<b>-11 to -99</b> = Non Standard or Custom Part

## Ferrite Cable Core Products

28B0250-100 (Part number example in **BOLD**)

28	B	0250	-1	0	0
Material Type	Product Type Code	Part Size Code	Selected Dimension Code	Additional Part Description	Additional Part Description
<b>28 = Broad Band Material</b>  HF = High Frequency Material  LF = Low Frequency Material	A = Split round cores (Snap-Ons)  <b>B = Round Cylindrical Cores</b>  R = Ribbon Cable Cores  S = Split Ribbon Cores	28 material is usually measured in inches for OD.  HF & LF Material OD & ID is usually measured in mm.	Usually Length	<b>0 = Standard Part</b>  <b>"A" Product Type Code</b> A = Plastic Case B = Plastic Case  <b>"S" Product Type Code</b> 0 = No Clip M = Metal Clip P = Plastic Clip A = Hinged Plastic Case	<b>0 = Standard Part</b>  <b>"A" Product Type Code</b> 0 = White Case 2 = Black Case



## FERRITE MATERIAL COMPARISON

LF, 28, HF Material Impedance vs Frequency ( 300 KHz - 2 GHz )  
Impedance Materials for Cable & Wiring Harness Cores



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