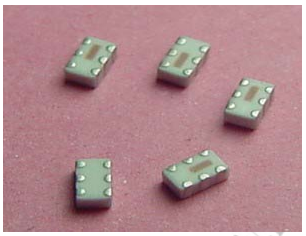
Multilayer Chip Diplexers

Features

- Monolithic structure including one low-pass and one high-pass filter with loss pole at adjacent passband.
- Replacing three inductors and eight capacitors.



Applications

- Dual-band/dual-mode cellular phones

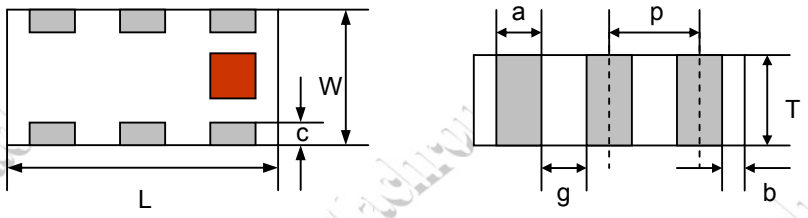
Part Number Systems

MDP - 3216 – B – 0918 – AA - LF

(1) (2) (3) (4) (5) (6)

(1)	**Product series**	**(2)**	**Dimensions (L x W): 3.2 x 1.6 mm**
(3)	**Material code**	**(4)**	**Frequency Range: 0918 = 900/1800MHz**
(5)	**Specification Code**	**(6)**	**ROHs Compliant**

Shape And Dimensions



Unit: mm

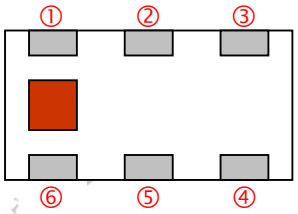
Type	L	W	T	a	b	c	g	p
3216	**3.2 ± 0.15**	**1.6 ± 0.15**	**0.85±0.1**	**0.55 ± 0.15**	**0.35 ± 0.15**	**0.3 + 0.1/-0.2**	**0.4 ± 0.15**	**1.0 ± 0.1**

MDP-3216-Series **ELECTRICAL CHARACTERISTICS**

Part Number	Passband (MHz)	Attenuation @ Low Band (dB)	Attenuation @ High Band (dB)	Passband Return Loss (dB)	Power Capacity
MDP-3216-B-0918-AA-LF	880-960	0.75 Max.	20 Min.	12 Min.	3W Max
	1710-1880	20 Min.	0.55 Max.	12 Min.	
MDP3216-B-0918-BA-LF	954-980	0.75 Max.	20 Min.	12 Min.	
	1710-1880	20 Min.	0.55 Max.	12 Min.	
MDP-3216-B-0819-AA-LF	824-894	0.55 Max.	20 Min.	12 Min.	
	1850-1990	20 Min.	0.50 Max.	12 Min.	

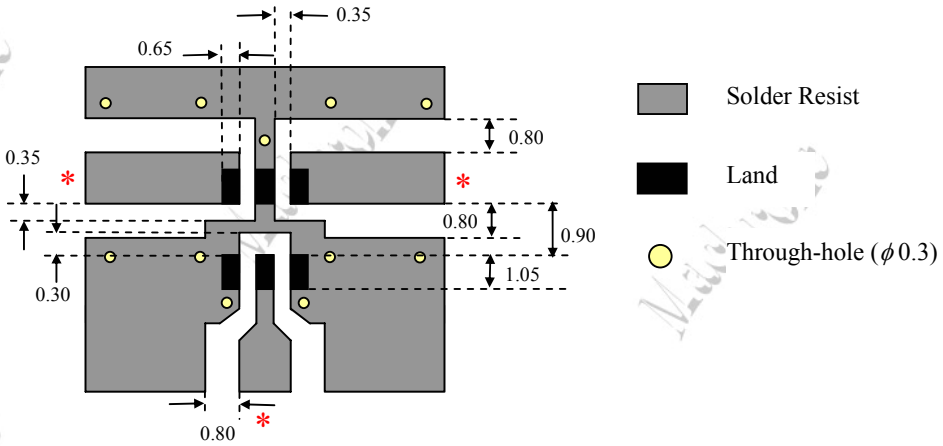
*** All specifications are subjected to change without prior notice.**

Terminal Configuration



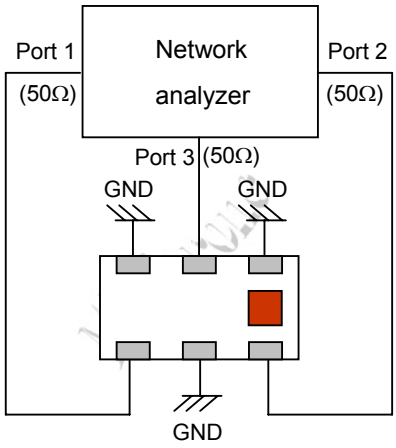
No.	Terminal Name	No.	Terminal Name
1	Lower Frequency. Port (P2)	4	GND
2	GND	5	Common Port (P3)
3	Higher Frequency. Port (P1)	6	GND

Recommended PC Board Pattern (Unit: mm)



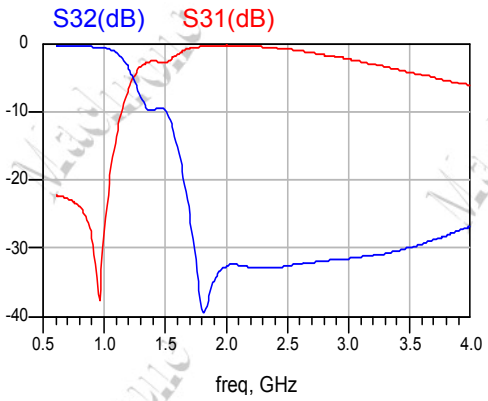
* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

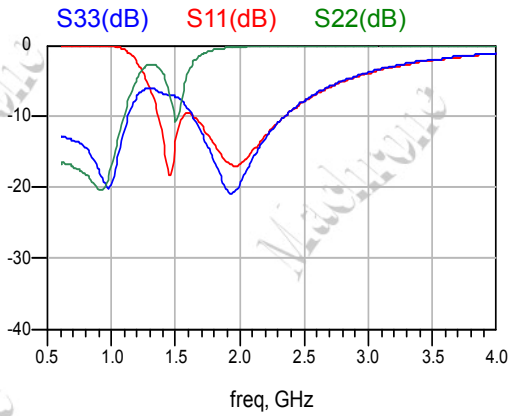
Measuring Diagram



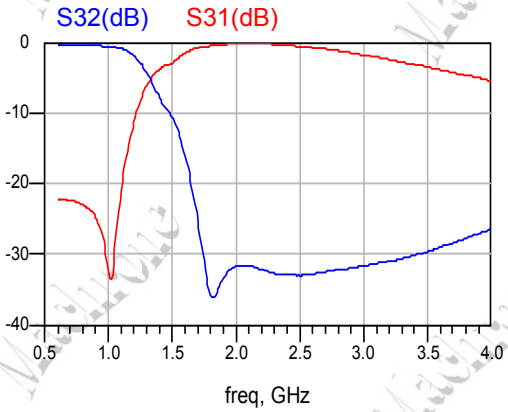
Typical Electrical Characteristics (Temperature = 25ºC)

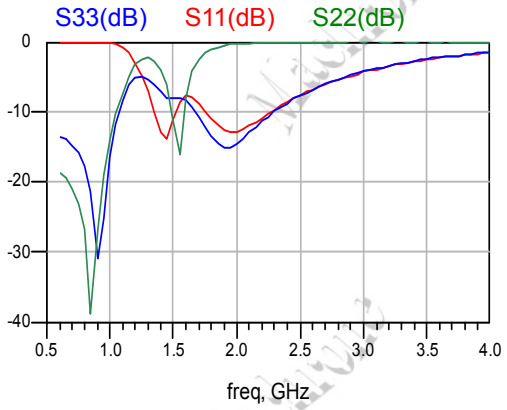
❖ MDP-3216-B-0918-AA-LF





❖ MDP-3216-B-0918-BA-LF





❖ MDP-3216-B-0819-AA-LF