

EMC Components

MEA Series MEA3216 Type

3-Terminal Filters for Signal Line and DC Power Line SMD

4-LINE, MEA3216 LOW PROFILE TYPE

FEATURES

- TDK's own unique 4-line multilayer L-type EMC filter.
- This chip EMC filter removes high frequency noise from signal lines.
- Tape packaging allows use by automatic assembly equipment.
- Entirely monolithic structure is almost unaffected by crosstalk.

APPLICATIONS

Personal computers, computing and communications devices, electronic games, hard disk drives, facsimiles, etc.

PRODUCT IDENTIFICATION

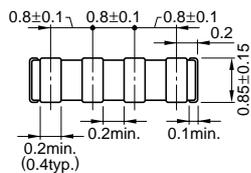
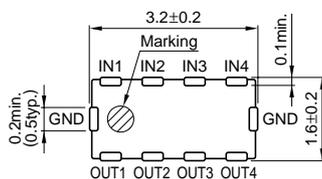
MEA	3216	L	50R0	T
(1)	(2)	(3)	(4)	(5)

- (1) Series name (4) Cutoff frequency (MHz)
 (2) Dimensions L×W 50R0:fc=50MHz
 (3) L type circuit (5) Packaging style T: Taping

TEMPERATURE RANGES

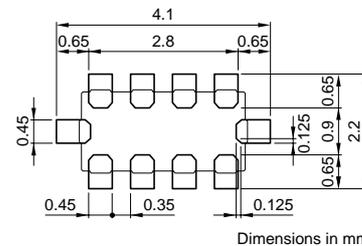
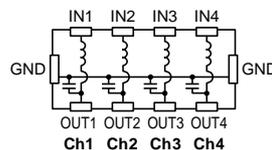
Operating	-40 to +85°C
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SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN



Weight: 26mg

Dimensions in mm



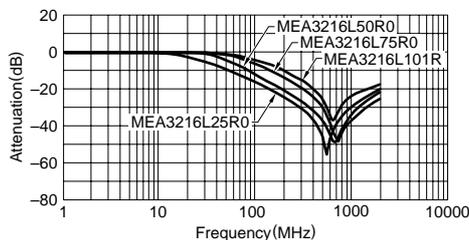
Dimensions in mm

ELECTRICAL CHARACTERISTICS

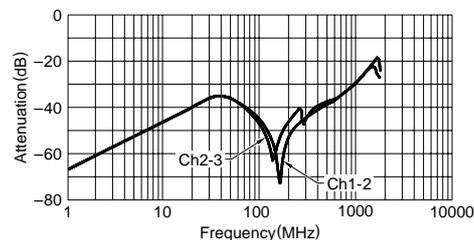
Part No.	Cutoff frequency (MHz) typ.	Attenuation 20dB frequency range (MHz)	Rated voltage (V) max.	Rated current (mA) max.
MEA3216L25R0	25	300 to 1000	10	100
MEA3216L50R0	50	500 to 1000	10	100
MEA3216L75R0	75	500 to 800	10	100
MEA3216L101R	100	500 to 600	10	100

TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS



MEA3216L50R0: Crosstalk(50Ω System)



TEST EQUIPMENT

- HP-8753B NETWORK ANALYZER, or equivalent
- HP-85046A S-PARAMETER TEST SET, or equivalent

EMC Components

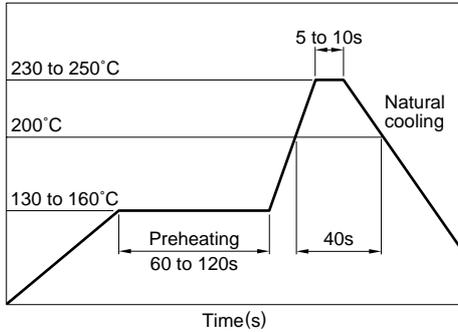
MEA Series MEA3216 Type

3-Terminal Filters for Signal Line and DC Power Line SMD

4-LINE, MEA3216 LOW PROFILE TYPE RECOMMEND SOLDERING CONDITION REFLOW SOLDERING

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	2000 pieces/reel



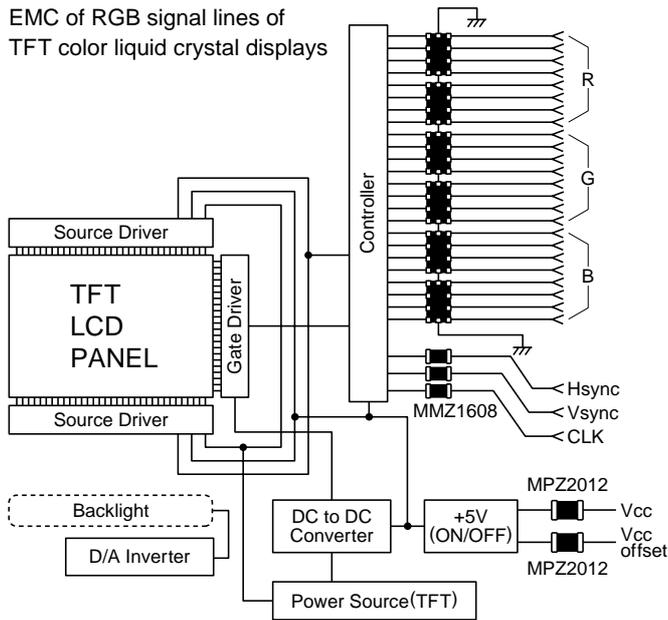
TYPICAL APPLICATIONS



Multilayer chip bead

- MPZ2012 Large current type for power line
- MMZ1608 Large current type for signal line

EMC of RGB signal lines of
TFT color liquid crystal displays



MAJOR APPLICATIONS

TFT color liquid crystal display (display interface), notebook PCs (high speed bus and interface lines), data terminals, various types of portable audio-visual equipment, high resolution printers, etc.