EMC Components

Noise suppression filter

For home appliances (conductive noise countermeasure) VFS series



公TDK

VFS6045 type



FEATURES

- O A compact noise suppression component for home appliances that accommodates high currents.
- O High magnetic shield construction achieved by a ferrite magnetic material and compatible with high-density mounting.
- Operating temperature range: -40 to +105°C (including self-temperature rise)

APPLICATION

O Refrigerators, air conditioners, washing machines, vacuum cleaners, TV

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Туре	Impedance		DC resistar	ice	Rated current	Part No.
	(Ω)Τyp.	(Ω)Min.	(Ω)typ.	(Ω)max.	(A)max.	
	57	30	0.012	0.0156	6.0	VFS6045VA031
6045VA [at 10MHz]	145	120	0.019	0.0247	5.1	VFS6045VA121
	242	200	0.023	0.0299	4.95	VFS6045VA201
	468	300	0.036	0.0468	3.6	VFS6045VA301
	1275	1000	0.075	0.0975	2.5	VFS6045VA102
004504	188	150	0.175	0.2275	1.5	VFS6045SA151
6045SA [at 1MHz]	552	450	0.47	0.611	0.9	VFS6045SA451
מנ וועורובן	1232	1000	1.15	1.495	0.5	VFS6045SA102

Measurement equipment

Measurement item	Product No.	Manufacturer
Impedance	4294A	Keysight Technologies
DC resistance	34420A	Hewlett-Packard

* Equivalent measurement equipment may be used.



suppression-filter_commercial_vfs6045_en

VFS6045 type

Z FREQUENCY CHARACTERISTICS



■ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (2/4)

VFS6045 type

SHAPE & DIMENSIONS







Dimensions in mm

PACKAGING STYLE



Dimensions in mm

TAPE DIMENSIONS



Туре	А	В	K
VFS6045	6.3	6.3	4.7

PACKAGE QUANTITY

Package quantity	1500 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

	Operating temperature range*	Storage temperature range**	Individual weight
	–40 to +105 °C	–40 to +105 °C	0.6 g
*	Operating temperature range includes self-temperature rise.		

** The storage temperature range is for after the assembly.

RECOMMENDED LAND PATTERN

RECOMMENDED REFLOW PROFILE



Dimensions in mm



Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (3/4)20181115

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

 The storage period is less than 12 months. Be sure to follow the storag less). If the storage period elapses, the soldering of the terminal electrodes r 				
\bigcirc Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).				
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature dir does not exceed 150°C. 	fference between the solder temperature and chip temperature			
 Soldering corrections after mounting should be within the range of the If overheated, a short circuit, performance deterioration, or lifespan sho 				
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.				
Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.				
 Carefully lay out the coil for the circuit board design of the non-magnet. A malfunction may occur due to magnetic interference. 	ic shield type.			
\bigcirc Use a wrist band to discharge static electricity in your body through the	e grounding wire.			
\bigcirc Do not expose the products to magnets or magnetic fields.				
\bigcirc Do not use for a purpose outside of the contents regulated in the deliver	ery specifications.			
 The products listed on this catalog are intended for use in general element, home appliances, amusement equipment, computer equipment ment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of ity require a more stringent level of safety or reliability, or whose failure person or property. If you intend to use the products in the applications listed below or if you set forth in the each catalog, please contact us. 	nt, personal equipment, office equipment, measurement equip- of the applications listed below, whose performance and/or qual- e, malfunction or trouble could cause serious damage to society,			
 (2) Transportation equipment (cars, electric trains, ships, etc.) (3) Medical equipment (4) Power-generation control equipment (5) Atomic energy-related equipment 	 (8) Public information-processing equipment (9) Military equipment (10) Electric heating apparatus, burning equipment (11) Disaster prevention/crime prevention equipment (12) Safety equipment (13) Other applications that are not considered general-purpose applications 			

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading. (4/4)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Common Mode Chokes / Filters category:

Click to view products by TDK manufacturer:

Other Similar products are found below :

 RGCMF1210900H3T
 B82722A2102N001
 UAL21V07012500
 UAL24VR06500CH
 UALSC0220G0000
 UALSC058000000

 UALSC0580J0000
 UALSC1520JH000
 UALSU10VR15019
 UALSU10VR20010
 UALSU16VD30030
 UALSU16VD40010

 UALSU9H0305000
 UALSU9HF030600
 UALSU9HF060300
 UALSU9HR050340
 UALSU9VD070100
 UALSU9VR070170
 5701610000

 CM7060M132R-10
 UALW21HS200290
 UALW21HS072450
 UALSU9VD070400
 UALSU9V0701000
 UALSU9HR030900

 UALSU9HF050500
 UALSU9H0701000
 UALSU9H0208000
 UALSU9H0110000
 UALSC0305GS000

 UALSC0120G0000
 UAL24VK06450CH
 UAL11VL1105000
 RN112-3.6-02-0M4
 RN114-1.2-02-10M
 RN122-0.6-02-47M
 RN122-3-02-4M5

 RN142-1-02-33M
 RN214-2.5-02-3M3
 RN112-2-02-1M0
 RN143-6-02-1M8
 RN214-0.8-02-27M
 RN242-1.4-02-27M
 EXC-X4CH120X

 DLW5BTM102TQ2L
 CMF16-153131
 CMF23H-273141
 744252510
 B82793C0253N201