imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Noise Suppression Sheets/Magnetic Sheets/Radio Wave Absorbers Flexield®

FOR NOISE SUPPRESSION IRL, IRJ, IVM, IRB, IRE MATERIALS

Flexield® is an absorptive electromagnetic shielding material consisting of magnetic material and resin. It suppresses noise radiated from electronic equipment over a wide range of frequencies, offers flexibility in fabrication and delivers particularly excellent performance in high frequency ranges. Flexield® is the ideal sheet-type noise reduction product for mobile devices including notebook PCs, digital cameras and cell phones.

FEATURES

- They are flexible(Will not crack).
- They are suited for thin and compact devices.
- · Available in a wide range of dimensions and shapes.
- · The products in the line-up support a wide range of frequency bands (50MHz to 30GHz).
- Excellent performance at high frequencies (\geq 300MHz).
- · Environmentally products(All products: Lead-free) are also available.
- Product Conforming to RoHS Directive

APPLICATIONS

- Electromagnetic noise reduction for electric equipment (especially for mobile equipment) Internal EMI, resonance reduction(mounting inside a shielded box)
 - RF-block
 - Amplifier

Radiated noise reduction(Circuit, IC, flat cable) Surface current suppression

- · Improvement of noise immunity
- · SAR reduction for mobile phone
- · Electrostatic discharge countermeasure
- · Improved antenna reception sensitivity.



PRODUCT IDENTIFICATIONS

IRL02	А	н	300	х	300	х	2
(1)	(2)	(3)	(4)		(5)		(6)

(1) Material name

- (2) A denotes: Both adhesive taped products
 - A: Standard type

AB: Thin type

- (3) H denotes: Half-cutting products
- (4) Length(300: 300mm)
- (5) Width(300: 300mm)
- (6) Thickness(2: 2mm)

SPECIFICATIONS						NEW		NEW	
Type(Features/Application)	High p	performa	nce • Wide I	band		High perr	neability	Super high permeability	
Material name	IRL02		IRL03		IRL04		IRL05		
Recommended frequency range	100MHz to 10GHz		100MHz to 10GHz		50MHz to 10GHz		30MHz to 10GHz		
Operating temperature range (°C)	-40 to +85		-40 to +85		-40 to +85		-40 to +85		
Initial permeability µi [at10MHz]min.	20		20		30		60		
Resistivity (Ω/square) min.	1M		1M		10k		1G (The magnetic layer/10)		
Thermal conductivity(W/m • k)	1.4		1.4		1.4		1.6		
Standard sheet dimensions (mm)	200×200 300×200		300×200		300×200		300×200		
Standard sheet thickness (mm)	1	2	0.05	0.25	0.5	0.25 0.5		0.1	
Standard sheet weight (g)	100	200	10	50	100	50	100	25	
Density (g/cm ³)	3.2 2.5 3.		3.4		3.3		3.7		
Flame retardant	_		—		(Also available for UL94 approved products.)		_		
invironment Lead/Halogen-free Conformity to RoHS Directive		Lead free Conformity to RoHS Directive		Lead/Halogen-free Conformity to RoHS Directive		Halogen-free Conformity to RoHS Directive			

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

• It may not be allowed to export these absorbers due to Export Control regulations.

(2/2)

SPECIFICATIONS

SPECIFICATIONS										
Type(Features/Application)	High-res	sisting			High resistance/Unflammable					
Material name	IRJ01				IVM05			IVM06		
Recommended frequency range	100MHz to 10GHz				100MHz to 3GHz			100MHz to 3GHz		
Operating temperature range (°C)	-40 to +125				-40 to +85			-40 to +85		
Initial permeability µi [at10MHz]min.	18				7			12		
Resistivity (Ω/square) min.	1M				1G			1G		
Thermal conductivity(W/m • k)	1.0				1.2			1.3		
Standard sheet dimensions (mm)	250×250	0			300×200			300×200		
Standard sheet thickness (mm)	0.5				0.4			0.4		
Standard sheet weight (g)	85				80			80		
Density (g/cm ³)	2.5				3.3			3.3		
Flame retardant	UL94V-	1			UL94V-0			UL94V-0		
Environment	Lead/Halogen-free				Lead/Halogen-free			Lead free		
	Conformity to RoHS Directive				Conformity to RoHS Directive			Conformity to RoHS Directive		
					*					
Type(Features/Application)	For qua	si-microw	ave band		For GHz					
Material name	IRB02				IRE02					
Recommended frequency range	500MHz	z to 5GHz			3 to 30G	Hz				
Operating temperature range (°C)	-40 to +	-70			-40 to +85					
Initial permeability µi [at10MHz]min.	6				4					
Resistivity (Ω /square) min.	1M				1M					
Thermal conductivity(W/m • k)	1.2				0.8					
Standard sheet dimensions (mm)	300×300				300×300					
Standard sheet thickness (mm)	1	2	3	6	1	2	3			
Standard sheet weight (g)	300	600	900	1800	250	500	750			
Density (g/cm ³)	3.3			1	3.75					
Flame retardant	—				-					
Environment	Lead/Halogen-free Conformity to RoHS Directive				Lead/Ha	logen-free				
Environment					Conformity to RoHS Directive					
	00110111				Contonnity to his 10 Directive					

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