

## Miniature HDTV/SDI Coax

### Features & Benefits

Thin Profile  
 Low Attenuation & Return Loss  
 Precision 75 Ω Impedance  
 4.5 GHz Bandwidth for HDTV (VDM230 & VDM230TS)  
 High Velocity of Propagation  
 Stranded or Solid Conductor  
 Gas-Injected Foam Dielectric  
 Full-Copper Braid & Foil Shield  
 100% Sweep Tested  
 Low Weight

### Applications

High-Definition Serial Digital Video (VDM230 & VDM230TS)  
 Standard-Definition Serial Digital Video  
 Digital Audio (AES3id or SPDIF)  
 High-Resolution Analog Video  
 Ideal for Remote Broadcast Interconnect

The Gepco® Brand miniature coax series features exceptionally low attenuation for its type while maintaining a reduced size and weight. All utilize a pure-copper center conductor, low-loss foam dielectric and broadband foil and braid shielding. VDM230 features the same gas-injected dielectric found in the HD coax series making it ideal for standard-definition digital video, AES3id digital audio or high-definition digital video interconnect within mobile production trucks. VDM250 and VDM250D are recommended for short distance, low bit-rate digital, analog video, or SVHS applications. The VDM230TS is recommended for plenum installation.



### Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
<b>VDM230</b>	1	0.164"	23 AWG Solid BC	Gas-Injected Foam PE, 0.100"	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	18 lbs/Mft
<i>Miniature HD/SDI Coax: 23 AWG Solid</i>									
<b>VDM230TS</b>	1	0.164"	23 AWG Solid BC	Gas-Injected Foam FEP, 0.099"	95% TC Braid, 100% Foil	Plenum PVC	Black, White	CMP	22 lbs/Mft
<i>Miniature HD/SDI Coax: 23 AWG Solid Plenum</i>									
<b>VDM250</b>	1	0.154"	25 AWG (7x33) Stranded BC	Gas-Injected Foam PE, 0.099"	95% TC Braid, 100% Foil	PVC	Black	CMR	16 lbs/Mft
<i>Miniature SDI Coax: 25 AWG Stranded</i>									
<b>VDM250D</b>	2	0.154" x 0.315"	25 AWG (7x33) Stranded BC	Gas-Injected Foam PE, 0.099"	95% TC Braid, 100% Foil	Flexible Matte PVC	Black	—	33 lbs/Mft
<i>Miniature SDI or SVHS Coax: Dual 25 AWG Stranded</i>									

### Electrical Specifications

Part #	Impedance	Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz)	Capacitance	Cond. DCR per Mft/Shield DCR per Mft	Vel. of Prop.	Attenuation (dB per 100 ft)												
						1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
VDM230 VDM230TS	75 Ω (+/-2)	>23dB, >21dB	16.5 pF/ft	20.3 Ω/2.7 Ω	82%	0.38	0.78	1.19	3.01	3.80	5.40	6.18	9.30	10.47	12.97	16.00	18.48	22.8
VDM250	75 Ω (+/-3)	>21dB, —	16.5 pF/ft	30.0 Ω/4.8 Ω	82%	0.47	0.91	1.43	3.45	4.61	6.46	7.48	10.80	12.80	—	—	—	—
VDM250D	75 Ω (+/-3)	>21dB, —	16.5 pF/ft	30.0 Ω/4.8 Ω	82%	0.47	0.91	1.43	3.45	4.61	6.46	7.48	10.80	12.80	—	—	—	—